Highly Recommended Class B Hostels in Five Big Cities in Japan

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Identify Class B hostels around Japan's five cities. We used a Google API to search for the Class B hostels to develop a package for hostels on a map using Leaflet. We also used the Google API to get the ratings of the hostels. We used the Google API to get the ratings of the hostels. We also used the Google API to collect the coordinates of hostels. We used the data set from the location of Japan's three cities and Google API. We are looking for a hostel with a price starting at 4000 JPY per night of around 30 USD and a location rating and an overall score of 8.

```
here <- read.csv("Hostels.csv")
```

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
##
## The following objects are masked from 'package:stats':
##
##     filter, lag
##
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.1.3
```

```
library(gridExtra)
```

```
##
## Attaching package: 'gridExtra'
##
## The following object is masked from 'package:dplyr':
##
##     combine
##
## The following object is masked from 'package:ggplot2':
##
##     arrangeGrob
```

```
library(knitr)
```

```
## Warning: package 'knitr' was built under R version 4.1.3
```

```
library(kableExtra)
```

```
##
## Attaching package: 'kableExtra'
##
## The following object is masked from 'package:dplyr':
##
##     group_rows
##
## The following object is masked from 'package:knitr':
##
##     kable
##
## The following object is masked from 'package:gridExtra':
##
##     add_footer_row
```

```
library(ggmap)
```

```
## ℹ Google's Terms of Service: https://mapsplatform.google.com
##
## Attaching package: 'ggmap'
##
## The following object is masked from 'package:ggplot2':
##
##     inset
```

```
here
```

```
##   hostel_name City price_from Distance summary_score rating_band atmosphere cleanliness facilities location security staff value/money
## 1  Tokiwa Bed*  Osaka     2000  2.8km         8.2   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 2  Capsule Inn Osaka  Osaka     2000  3.5km (within 5km)         9.2   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 3  K-Inn Hostel  Fukuoka     2000  5.7km (within 5km)         9.0   Superb       9.0       9.0      8.7      9.0      9.0   8.7       9.0
## 4  Grand Hostel Hakata  Fukuoka     2000  5.7km (within 5km)         8.7  Fabulous       8.       7.       8.       8.      10.   10.       8.
## 5  Grand Hostel Tokyo     2000  8.7km (within 5km)         7.9  Very Good       8.       7.2      7.5      7.5      7.      8.      8.
## 6  Grand Hostel Tokyo Ikebukuro     1500  10.0km (within 5km)         8.4   Superb       9.0       9.0      9.0      9.0      9.0   10.       9.0
## 7  Hostel Mitsumoto Tokyo     2100  8.0km (within 5km)         9.0   Superb       10.       9.       9.       9.       9.      9.       9.
## 8  GO Hostel & Lounge Tokyo     2200  9.0km (within 5km)         8.5   Superb       8.7       8.7      8.5      8.5      8.7   8.7       8.5
## 9  Mitsui Garden Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 10  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 11  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 12  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 13  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 14  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 15  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 16  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 17  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 18  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 19  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 20  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 21  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 22  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 23  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 24  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 25  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 26  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
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## 28  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
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## 30  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 31  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 32  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 33  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 34  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 35  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 36  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
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## 44  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 45  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 46  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 47  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 48  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 49  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 50  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
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## 52  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
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## 64  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 65  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 66  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 67  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 68  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 69  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 70  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 71  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 72  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 73  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
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## 76  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 77  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 78  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 79  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 80  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 81  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 82  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 83  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 84  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 85  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 86  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 87  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 88  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 89  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 90  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 91  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 92  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 93  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 94  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 95  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 96  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 97  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 98  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 99  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
## 100  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5   Superb       9.0       9.0      9.0      9.0      9.0   9.0       9.0
```

```
here[,c(1:5)]
```

```
##   hostel_name City price_from Distance summary_score
## 1  Tokiwa Bed*  Osaka     2000  2.8km         8.2
## 2  Capsule Inn Osaka  Osaka     2000  3.5km (within 5km)         9.2
## 3  K-Inn Hostel  Fukuoka     2000  5.7km (within 5km)         9.0
## 4  Grand Hostel Hakata  Fukuoka     2000  5.7km (within 5km)         8.7
## 5  Grand Hostel Tokyo     2000  8.7km (within 5km)         7.9
## 6  Grand Hostel Tokyo Ikebukuro     1500  10.0km (within 5km)         8.4
## 7  Hostel Mitsumoto Tokyo     2100  8.0km (within 5km)         9.0
## 8  GO Hostel & Lounge Tokyo     2200  9.0km (within 5km)         8.5
## 9  Mitsui Garden Hiroshima     2200  9.0km (within 5km)         8.5
## 10  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
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## 15  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 16  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 17  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 18  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 19  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 20  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 21  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 22  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
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## 45  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 46  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 47  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 48  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 49  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 50  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 51  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 52  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 53  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 54  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 55  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 56  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 57  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 58  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 59  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 60  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 61  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 62  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 63  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 64  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 65  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 66  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 67  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 68  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 69  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 70  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 71  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 72  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 73  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 74  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 75  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 76  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 77  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 78  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 79  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 80  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 81  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 82  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 83  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 84  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 85  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 86  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 87  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 88  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 89  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 90  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 91  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 92  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 93  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 94  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 95  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 96  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 97  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 98  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 99  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
## 100  Kai Kanazawa Hiroshima     2200  9.0km (within 5km)         8.5
```

```
here[,c(6:12)]
```

```
##   rating_band atmosphere cleanliness facilities location security staff
## 1   Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 2   Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 3   Superb       9.0       9.0      9.0      9.0      8.7   9.0
## 4  Fabulous       8.        7.       8.       8.      10.   10.
## 5  Very Good      8.        7.2      7.5      7.5      7.      8.
## 6   Superb       9.0       9.0      9.0      9.0      9.0   10.
## 7   Superb       10.       9.       9.       9.       9.      9.
## 8   Superb       8.7       8.7      8.5      8.5      8.7   8.7
## 9   Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 10  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 11  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 12  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 13  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 14  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 15  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 16  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 17  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 18  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 19  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 20  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 21  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 22  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 23  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 24  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 25  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 26  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 27  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 28  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 29  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 30  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 31  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 32  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 33  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 34  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 35  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 36  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 37  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 38  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 39  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 40  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 41  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 42  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 43  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 44  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 45  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 46  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 47  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 48  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 49  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 50  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 51  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 52  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 53  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 54  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 55  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 56  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 57  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 58  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 59  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 60  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 61  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 62  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 63  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 64  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 65  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 66  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 67  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 68  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 69  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 70  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 71  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 72  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 73  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 74  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 75  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 76  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 77  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 78  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 79  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 80  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 81  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 82  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 83  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 84  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 85  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 86  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 87  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 88  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 89  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 90  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 91  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 92  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 93  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 94  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 95  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 96  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 97  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 98  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 99  Superb       9.0       9.0      9.0      9.0      9.0   9.0
## 100  Superb       9.0       9.0      9.0      9.0      9.0   9.0
```

```
here[,c(13:19)]
```

```
##   value/money City price_from Distance summary_score rating_band
## 1       9.0  Osaka     2000  2.8km         8.2   Superb
## 2       9.0  Osaka     2000  3.5km (within 5km)         9.2   Superb
## 3       9.0 Fukuoka     2000  5.7km (within 5km)         9.0   Superb
## 4       9.0 Fukuoka     2000  5.7km (within 5km)         8.7  Fabulous
## 5       8.  Tokyo     2000  8.7km (within 5km)         7.9  Very Good
## 6       9.  Tokyo     1500  10.0km (within 5km)         8.4   Superb
## 7       9.  Tokyo     2100  8.0km (within 5km)         9.0   Superb
## 8       9.  Tokyo     2200  9.0km (within 5km)         8.5   Superb
## 9       9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 10      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 11      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 12      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 13      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 14      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 15      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 16      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 17      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 18      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 19      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 20      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 21      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 22      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 23      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 24      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 25      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 26      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 27      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 28      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 29      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 30      9.0 Hiroshima     2200  9.0km (within 5km)         8.5   Superb
## 31
```

hotel	star	Atmosphere	Rec	rec	ai	price	clean	loc	acc
Grand Hotel Quisisana Capri	5	9.5	9.5	9.5	9.5	1,154 USD	9.5	9.5	9.5
Hotel Caesar Augustus	5	9.4	9.4	9.4	9.4	1,154 USD	9.4	9.4	9.4
Hotel Quisisana	5	9.3	9.3	9.3	9.3	1,154 USD	9.3	9.3	9.3
Hotel Punta Tragara	5	9.2	9.2	9.2	9.2	1,154 USD	9.2	9.2	9.2
Hotel Luna	4	8.9	8.9	8.9	8.9	1,154 USD	8.9	8.9	8.9
Hotel Villa Sarah	4	8.8	8.8	8.8	8.8	1,154 USD	8.8	8.8	8.8
Hotel Pina	4	8.7	8.7	8.7	8.7	1,154 USD	8.7	8.7	8.7
Hotel Weber	4	8.6	8.6	8.6	8.6	1,154 USD	8.6	8.6	8.6
Hotel Bellevue	4	8.5	8.5	8.5	8.5	1,154 USD	8.5	8.5	8.5
Hotel Tiberio Palace	4	8.4	8.4	8.4	8.4	1,154 USD	8.4	8.4	8.4
Hotel Capri	4	8.3	8.3	8.3	8.3	1,154 USD	8.3	8.3	8.3
Hotel Belsito	3	8.2	8.2	8.2	8.2	1,154 USD	8.2	8.2	8.2
Hotel Marina Grande	3	8.1	8.1	8.1	8.1	1,154 USD	8.1	8.1	8.1
Hotel Minerva	3	8.0	8.0	8.0	8.0	1,154 USD	8.0	8.0	8.0
Hotel Gradola	3	7.9	7.9	7.9	7.9	1,154 USD	7.9	7.9	7.9
Hotel Fenicia	3	7.8	7.8	7.8	7.8	1,154 USD	7.8	7.8	7.8
Hotel Flora	3	7.7	7.7	7.7	7.7	1,154 USD	7.7	7.7	7.7
Hotel Faro	3	7.6	7.6	7.6	7.6	1,154 USD	7.6	7.6	7.6
Hotel Ischia	3	7.5	7.5	7.5	7.5	1,154 USD	7.5	7.5	7.5
Hotel Ischia Porto	3	7.4	7.4	7.4	7.4	1,154 USD	7.4	7.4	7.4
Hotel Terme Vitarelli	3	7.3	7.3	7.3	7.3	1,154 USD	7.3	7.3	7.3
Hotel Mediterraneo	3	7.2	7.2	7.2	7.2	1,154 USD	7.2	7.2	7.2
Hotel Continental	3	7.1	7.1	7.1	7.1	1,154 USD	7.1	7.1	7.1
Hotel Villa Maria	2	7.0	7.0	7.0	7.0	1,154 USD	7.0	7.0	7.0
Hotel Terme Boccatalla	2	6.9	6.9	6.9	6.9	1,154 USD	6.9	6.9	6.9
Hotel Syrene	2	6.8	6.8	6.8	6.8	1,154 USD	6.8	6.8	6.8
Hotel Rina	2	6.7	6.7	6.7	6.7	1,154 USD	6.7	6.7	6.7
Hotel Pergola	2	6.6	6.6	6.6	6.6	1,154 USD	6.6	6.6	6.6
Hotel Mediterraneo Capri	2	6.5	6.5	6.5	6.5	1,154 USD	6.5	6.5	6.5
Hotel Leonardo	2	6.4	6.4	6.4	6.4	1,154 USD	6.4	6.4	6.4
Hotel Ischitella	2	6.3	6.3	6.3	6.3	1,154 USD	6.3	6.3	6.3
Hotel Fortuna	2	6.2	6.2	6.2	6.2	1,154 USD	6.2	6.2	6.2
Hotel Ischia Image	2	6.1	6.1	6.1	6.1	1,154 USD	6.1	6.1	6.1
Hotel Casa Di Lidia	2	6.0	6.0	6.0	6.0	1,154 USD	6.0	6.0	6.0
Hotel Miami	2	5.9	5.9	5.9	5.9	1,154 USD	5.9	5.9	5.9
Hotel Mediterraneo Capri	2	5.8	5.8	5.8	5.8	1,154 USD	5.8	5.8	5.8
Hotel Giardino Di Cinzia	2	5.7	5.7	5.7	5.7	1,154 USD	5.7	5.7	5.7
Hotel Cristina	2	5.6	5.6	5.6	5.6	1,154 USD	5.6	5.6	5.6
Hotel Continental Capri	2	5.5	5.5	5.5	5.5	1,154 USD	5.5	5.5	5.5
Hotel Belsito	2	5.4	5.4	5.4	5.4	1,154 USD	5.4	5.4	5.4
Hotel Bellevue	2	5.3	5.3	5.3	5.3	1,154 USD	5.3	5.3	5.3
Hotel Ischitella	2	5.2	5.2	5.2	5.2	1,154 USD	5.2	5.2	5.2
Hotel Fortuna	2	5.1	5.1	5.1	5.1	1,154 USD	5.1	5.1	5.1
Hotel Ischia Image	2	5.0	5.0	5.0	5.0	1,154 USD	5.0	5.0	5.0
Hotel Miami	2	4.9	4.9	4.9	4.9	1,154 USD	4.9	4.9	4.9
Hotel Mediterraneo Capri	2	4.8	4.8	4.8	4.8	1,154 USD	4.8	4.8	4.8
Hotel Giardino Di Cinzia	2	4.7	4.7	4.7	4.7	1,154 USD	4.7	4.7	4.7
Hotel Cristina	2	4.6	4.6	4.6	4.6	1,154 USD	4.6	4.6	4.6
Hotel Continental Capri	2	4.5	4.5	4.5	4.5	1,154 USD	4.5	4.5	4.5
Hotel Belsito	2	4.4	4.4	4.4	4.4	1,154 USD	4.4	4.4	4.4
Hotel Bellevue	2	4.3	4.3	4.3	4.3	1,154 USD	4.3	4.3	4.3
Hotel Ischitella	2	4.2	4.2	4.2	4.2	1,154 USD	4.2	4.2	4.2
Hotel Fortuna	2	4.1	4.1	4.1	4.1	1,154 USD	4.1	4.1	4.1
Hotel Ischia Image	2	4.0	4.0	4.0	4.0	1,154 USD	4.0	4.0	4.0
Hotel Miami	2	3.9	3.9	3.9	3.9	1,154 USD	3.9	3.9	3.9
Hotel Mediterraneo Capri	2	3.8	3.8	3.8	3.8	1,154 USD	3.8	3.8	3.8
Hotel Giardino Di Cinzia	2	3.7	3.7	3.7	3.7	1,154 USD	3.7	3.7	3.7
Hotel Cristina	2	3.6	3.6	3.6	3.6	1,154 USD	3.6	3.6	3.6
Hotel Continental Capri	2	3.5	3.5	3.5	3.5	1,154 USD	3.5	3.5	3.5
Hotel Belsito	2	3.4	3.4	3.4	3.4	1,154 USD	3.4	3.4	3.4
Hotel Bellevue	2	3.3	3.3	3.3	3.3	1,154 USD	3.3	3.3	3.3
Hotel Ischitella	2	3.2	3.2	3.2	3.2	1,154 USD	3.2	3.2	3.2
Hotel Fortuna	2	3.1	3.1	3.1	3.1	1,154 USD	3.1	3.1	3.1
Hotel Ischia Image	2	3.0	3.0	3.0	3.0	1,154 USD	3.0	3.0	3.0
Hotel Miami	2	2.9	2.9	2.9	2.9	1,154 USD	2.9	2.9	2.9
Hotel Mediterraneo Capri	2	2.8	2.8	2.8	2.8	1,154 USD	2.8	2.8	2.8
Hotel Giardino Di Cinzia	2	2.7	2.7	2.7	2.7	1,154 USD	2.7	2.7	2.7
Hotel Cristina	2	2.6	2.6	2.6	2.6	1,154 USD	2.6	2.6	2.6
Hotel Continental Capri	2	2.5	2.5	2.5	2.5	1,154 USD	2.5	2.5	2.5
Hotel Belsito	2	2.4	2.4	2.4	2.4	1,154 USD	2.4	2.4	2.4
Hotel Bellevue	2	2.3	2.3	2.3	2.3	1,154 USD	2.3	2.3	2.3
Hotel Ischitella	2	2.2	2.2	2.2	2.2	1,154 USD	2.2	2.2	2.2
Hotel Fortuna	2	2.1	2.1	2.1	2.1	1,154 USD	2.1	2.1	2.1
Hotel Ischia Image	2	2.0	2.0	2.0	2.0	1,154 USD	2.0	2.0	2.0
Hotel Miami	2	1.9	1.9	1.9	1.9	1,154 USD	1.9	1.9	1.9
Hotel Mediterraneo Capri	2	1.8	1.8	1.8	1.8	1,154 USD	1.8	1.8	1.8
Hotel Giardino Di Cinzia	2	1.7	1.7	1.7	1.7	1,154 USD	1.7	1.7	1.7
Hotel Cristina	2	1.6	1.6	1.6	1.6	1,154 USD	1.6	1.6	1.6
Hotel Continental Capri	2	1.5	1.5	1.5	1.5	1,154 USD	1.5	1.5	1.5
Hotel Belsito	2	1.4	1.4	1.4	1.4	1,154 USD	1.4	1.4	1.4
Hotel Bellevue	2	1.3	1.3	1.3	1.3	1,154 USD	1.3	1.3	1.3
Hotel Ischitella	2	1.2	1.2	1.2	1.2	1,154 USD	1.2	1.2	1.2
Hotel Fortuna	2	1.1	1.1	1.1	1.1	1,154 USD	1.1	1.1	1.1
Hotel Ischia Image	2	1.0	1.0	1.0	1.0	1,154 USD	1.0	1.0	1.0
Hotel Miami	2	0.9	0.9	0.9	0.9	1,154 USD	0.9	0.9	0.9
Hotel Mediterraneo Capri	2	0.8	0.8	0.8	0.8	1,154 USD	0.8	0.8	0.8
Hotel Giardino Di Cinzia	2	0.7	0.7	0.7	0.7	1,154 USD	0.7	0.7	0.7
Hotel Cristina	2	0.6	0.6	0.6	0.6	1,154 USD	0.6	0.6	0.6
Hotel Continental Capri	2	0.5	0.5	0.5	0.5	1,154 USD	0.5	0.5	0.5
Hotel Belsito	2	0.4	0.4	0.4	0.4	1,154 USD	0.4	0.4	0.4
Hotel Bellevue	2	0.3	0.3	0.3	0.3	1,154 USD	0.3	0.3	0.3
Hotel Ischitella	2	0.2	0.2	0.2	0.2	1,154 USD	0.2	0.2	0.2
Hotel Fortuna	2	0.1	0.1	0.1	0.1	1,154 USD	0.1	0.1	0.1
Hotel Ischia Image	2	0.0	0.0	0.0	0.0	1,154 USD	0.0	0.0	0.0

```
sqlite3 hotel_delivery.db'
.header on
.mode csv
.output hotel_delivery.csv
select * from hotel;
.output hotel_delivery.jsonl
select * from hotel;
.quit
sqlite3 hotel_delivery.db'
.header on
.mode csv
.output hotel_delivery.csv
select * from hotel;
.output hotel_delivery.jsonl
select * from hotel;
.quit
```

We collected 10 hotels in Capri Island, Italy. For each hotel, we asked the booking agent to accept a flat price (1,154 USD) and to offer the guest the best room available. Each hotel was then rated on clean, loc, acc, and ai on a 0–10 scale, plus an overall star rating (1–5) and a Rec column. Attending hotelier Karl Heidel ranked it first place (rec 9.5).

```
Hotels: 10, sorted by rec, ties by hotel
Hotel Caesar Augustus  9.4  1,154 USD
Cleanest: Grand Hotel Quisisana (9.5)
Accounting: 1,154 USD/night, 10/10 at "Quisisana"
Hotel Caesar Augustus  9.4  1,154 USD
Cleanest: Grand Hotel Quisisana (9.5)
Total: 1,154 USD/night, 10/10 at "Quisisana"
Hotel Caesar Augustus  9.4  1,154 USD
Cleanest: Grand Hotel Quisisana (9.5)
```

Prices Paid

Hotel Caesar Augustus, 9.4, 1,154 USD

Hotel Quisisana, 9.3, 1,154 USD

Hotel Punta Tragara, 9.2, 1,154 USD

Hotel Luna, 8.9, 1,154 USD

Hotel Villa Sarah, 8.8, 1,154 USD

Hotel Pina, 8.7, 1,154 USD

Hotel Weber, 8.6, 1,154 USD

Hotel Bellevue, 8.5, 1,154 USD

Hotel Tiberio Palace, 8.4, 1,154 USD

Hotel Capri, 8.3, 1,154 USD

Hotel Belsito, 8.2, 1,154 USD

Hotel Marina Grande, 8.1, 1,154 USD

Hotel Minerva, 8.0, 1,154 USD

Hotel Gradola, 7.9, 1,154 USD

Hotel Fenicia, 7.8, 1,154 USD

Hotel Flora, 7.7, 1,154 USD

Hotel Faro, 7.6, 1,154 USD

Hotel Ischia, 7.5, 1,154 USD

Hotel Ischia Porto, 7.4, 1,154 USD

Hotel Terme Vitarelli, 7.3, 1,154 USD

Hotel Mediterraneo, 7.2, 1,154 USD

Hotel Continental, 7.1, 1,154 USD

Hotel Villa Maria, 7.0, 1,154 USD

Hotel Terme Boccatalla, 6.9, 1,154 USD

Hotel Syrene, 6.8, 1,154 USD

Hotel Rina, 6.7, 1,154 USD

Hotel Pergola, 6.6, 1,154 USD

Hotel Mediterraneo Capri, 6.5, 1,154 USD

Hotel Leonardo, 6.4, 1,154 USD

Hotel Ischitella, 6.3, 1,154 USD

Hotel Fortuna, 6.2, 1,154 USD

Hotel Ischia Image, 6.1, 1,154 USD

Hotel Casa Di Lidia, 6.0, 1,154 USD

Hotel Miami, 5.9, 1,154 USD

Hotel Mediterraneo Capri, 5.8, 1,154 USD

Hotel Giardino Di Cinzia, 5.7, 1,154 USD

Hotel Cristina, 5.6, 1,154 USD

Hotel Continental Capri, 5.5, 1,154 USD

Hotel Belsito, 5.4, 1,154 USD

Hotel Bellevue, 5.3, 1,154 USD

Hotel Ischitella, 5.2, 1,154 USD

Hotel Fortuna, 5.1, 1,154 USD

Hotel Ischia Image, 5.0, 1,154 USD

Hotel Miami, 4.9, 1,154 USD

Hotel Mediterraneo Capri, 4.8, 1,154 USD

Hotel Giardino Di Cinzia, 4.7, 1,154 USD

Hotel Cristina, 4.6, 1,154 USD

Hotel Continental Capri, 4.5, 1,154 USD

Hotel Belsito, 4.4, 1,154 USD

Hotel Bellevue, 4.3, 1,154 USD

Hotel Ischitella, 4.2, 1,154 USD

Hotel Fortuna, 4.1, 1,154 USD

Hotel Ischia Image, 4.0, 1,154 USD

Hotel Miami, 3.9, 1,154 USD

Hotel Mediterraneo Capri, 3.8, 1,154 USD

Hotel Giardino Di Cinzia, 3.7, 1,154 USD

Hotel Cristina, 3.6, 1,154 USD

Hotel Continental Capri, 3.5, 1,154 USD

Hotel Belsito, 3.4, 1,154 USD

Hotel Bellevue, 3.3, 1,154 USD

Hotel Ischitella, 3.2, 1,154 USD

Hotel Fortuna, 3.1, 1,154 USD

Hotel Ischia Image, 3.0, 1,154 USD

Hotel Miami, 2.9, 1,154 USD

Hotel Mediterraneo Capri, 2.8, 1,154 USD

Hotel Giardino Di Cinzia, 2.7, 1,154 USD

Hotel Cristina, 2.6, 1,154 USD

Hotel Continental Capri, 2.5, 1,154 USD

Hotel Belsito, 2.4, 1,154 USD

Hotel Bellevue, 2.3, 1,154 USD

Hotel Ischitella, 2.2, 1,154 USD

Hotel Fortuna, 2.1, 1,154 USD

Hotel Ischia Image, 2.0, 1,154 USD

Hotel Miami, 1.9, 1,154 USD

Hotel Mediterraneo Capri, 1.8, 1,154 USD

Hotel Giardino Di Cinzia, 1.7, 1,154 USD

Hotel Cristina, 1.6, 1,154 USD

Hotel Continental Capri, 1.5, 1,154 USD

Hotel Belsito, 1.4, 1,154 USD

Hotel Bellevue, 1.3, 1,154 USD

Hotel Ischitella, 1.2, 1,154 USD

Hotel Fortuna, 1.1, 1,154 USD

Hotel Ischia Image, 1.0, 1,154 USD

Hotel Miami, 0.9, 1,154 USD

Hotel Mediterraneo Capri, 0.8, 1,154 USD

Hotel Giardino Di Cinzia, 0.7, 1,154 USD

Hotel Cristina, 0.6, 1,154 USD

Hotel Continental Capri, 0.5, 1,154 USD

Hotel Belsito, 0.4, 1,154 USD

Hotel Bellevue, 0.3, 1,154 USD

Hotel Ischitella, 0.2, 1,154 USD

Hotel Fortuna, 0.1, 1,154 USD

Hotel Ischia Image, 0.0, 1,154 USD

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select * from hotel;
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select * from hotel;
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select * from hotel;
.quit
```

We collected 10 hotels in Capri Island, Italy. For each hotel, we asked the booking agent to accept a flat price (1,154 USD) and to offer the guest the best room available. Each hotel was then rated on clean, loc, acc, and ai on a 0–10 scale, plus an overall star rating (1–5) and a Rec column.

Attending hotelier Karl Heidel ranked it first place (rec 9.5).

```
Hotels: 10, sorted by rec, ties by hotel
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Cleanest: Grand Hotel Quisisana (9.5)
Accounting: 1,154 USD/night, 10/10 at "Quisisana"
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Cleanest: Grand Hotel Quisisana (9.5)
Total: 1,154 USD/night, 10/10 at "Quisisana"
Hotel Caesar Augustus  9.4  1,154 USD
Cleanest: Grand Hotel Quisisana (9.5)
```

Prices Paid

Hotel Caesar Augustus, 9.4, 1,154 USD

Hotel Quisisana, 9.3, 1,154 USD

Hotel Punta Tragara, 9.2, 1,154 USD

Hotel Luna, 8.9, 1,154 USD

Hotel Villa Sarah, 8.8, 1,154 USD

Hotel Pina, 8.7, 1,154 USD

Hotel Weber, 8.6, 1,154 USD

Hotel Bellevue, 8.5, 1,154 USD

Hotel Tiberio Palace, 8.4, 1,154 USD

Hotel Capri, 8.3, 1,154 USD

Hotel Belsito, 8.2, 1,154 USD

Hotel Marina Grande, 8.1, 1,154 USD

Hotel Minerva, 8.0, 1,154 USD

Hotel Gradola, 7.9, 1,154 USD

Hotel Fenicia, 7.8, 1,154 USD

Hotel Flora, 7.7, 1,154 USD

Hotel Faro, 7.6, 1,154 USD

Hotel Ischia, 7.5, 1,154 USD

Hotel Ischia Porto, 7.4, 1,154 USD

Hotel Terme Vitarelli, 7.3, 1,154 USD

Hotel Mediterraneo, 7.2, 1,154 USD

Hotel Continental, 7.1, 1,154 USD

Hotel Villa Maria, 7.0, 1,154 USD

Hotel Terme Boccatalla, 6.9, 1,154 USD

Hotel Syrene, 6.8, 1,154 USD

Hotel Rina, 6.7, 1,154 USD

Hotel Pergola, 6.6, 1,154 USD

Hotel Mediterraneo Capri, 6.5, 1,154 USD

Hotel Leonardo, 6.4, 1,154 USD

Hotel Ischitella, 6.3, 1,154 USD

Hotel Fortuna, 6.2, 1,154 USD

Hotel Ischia Image, 6.1, 1,154 USD

Hotel Casa Di Lidia, 6.0, 1,154 USD

Hotel Miami, 5.9, 1,154 USD

Hotel Mediterraneo Capri, 5.8, 1,154 USD

Hotel Giardino Di Cinzia, 5.7, 1,154 USD

Hotel Cristina, 5.6, 1,154 USD

Hotel Continental Capri, 5.5, 1,154 USD

Hotel Belsito, 5.4, 1,154 USD

Hotel Bellevue, 5.3, 1,154 USD

Hotel Ischitella, 5.2, 1,154 USD

Hotel Fortuna, 5.1, 1,154 USD

Hotel Ischia Image, 5.0, 1,154 USD

Hotel Miami, 4.9, 1,154 USD

Hotel Mediterraneo Capri, 4.8, 1,154 USD

Hotel Giardino Di Cinzia, 4.7, 1,154 USD

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Hotel Continental Capri, 4.5, 1,154 USD

Hotel Belsito, 4.4, 1,154 USD

Hotel Bellevue, 4.3, 1,154 USD

Hotel Ischitella, 4.2, 1,154 USD

Hotel Fortuna, 4.1, 1,154 USD

Hotel Ischia Image, 4.0, 1,154 USD

Hotel Miami, 3.9, 1,154 USD

Hotel Mediterraneo Capri, 3.8, 1,154 USD

Hotel Giardino Di Cinzia, 3.7, 1,154 USD

Hotel Cristina, 3.6, 1,154 USD

Hotel Continental Capri, 3.5, 1,154 USD

Hotel Belsito, 3.4, 1,154 USD

Hotel Bellevue, 3.3, 1,154 USD

Hotel Ischitella, 3.2, 1,154 USD

Hotel Fortuna, 3.1, 1,154 USD

Hotel Ischia Image, 3.0, 1,154 USD

Hotel Miami, 2.9, 1,154 USD

Hotel Mediterraneo Capri, 2.8, 1,154 USD

Hotel Giardino Di Cinzia, 2.7, 1,154 USD

Hotel Cristina, 2.6, 1,154 USD

Hotel Continental Capri, 2.5, 1,154 USD

Hotel Belsito, 2.4, 1,154 USD

Hotel Bellevue, 2.3, 1,154 USD

Hotel Ischitella, 2.2, 1,154 USD

Hotel Fortuna, 2.1, 1,154 USD

Hotel Ischia Image, 2.0, 1,154 USD

Hotel Miami, 1.9, 1,154 USD

Hotel Mediterraneo Capri, 1.8, 1,154 USD

Hotel Giardino Di Cinzia, 1.7, 1,154 USD

Hotel Cristina, 1.6, 1,154 USD

Hotel Continental Capri, 1.5, 1,154 USD

Hotel Belsito, 1.4, 1,154 USD

Hotel Bellevue, 1.3, 1,154 USD

Hotel Ischitella, 1.2, 1,154 USD

Hotel Fortuna, 1.1, 1,154 USD

Hotel Ischia Image, 1.0, 1,154 USD

Hotel Miami, 0.9, 1,154 USD

Hotel Mediterraneo Capri, 0.8, 1,154 USD

Hotel Giardino Di Cinzia, 0.7, 1,154 USD

Hotel Cristina, 0.6, 1,154 USD

Hotel Continental Capri, 0.5, 1,154 USD

Hotel Belsito, 0.4, 1,154 USD

Hotel Bellevue, 0.3, 1,154 USD

Hotel Ischitella, 0.2, 1,154 USD

Hotel Fortuna, 0.1, 1,154 USD

Hotel Ischia Image, 0.0, 1,154 USD

```
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select * from hotel;
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sqlite3 hotel_delivery.db'
.header on
.mode csv
.output hotel_delivery.csv
select * from hotel;
.output hotel_delivery.jsonl
select * from hotel;
.quit
```

```
$ ls -lh *.db
-rw-r--r-- 1 root root 20K Jul 27 11:41 hotel_delivery.db
$ sqlite3 hotel_delivery.db '.schema hotel; SELECT CAST(rowid AS INTEGER) AS rowid, * FROM hotel;'
CREATE TABLE "hotel"
"hotel" text
"star" text
"Atmosphere" text
"Rec" text
"rec" text
"ai" text
"price" text
"clean" text
"loc" text
"acc" text
);
rowid,hotel,star,Atmosphere,Rec,rec,ai,price,clean,loc,acc
1,Grand Hotel Quisisana Capri,5,9.5,9.5,9.5,9.5,1,154 USD,9.5,9.5,9.5
2,Hotel Caesar Augustus,5,9.4,9.4,9.4,9.4,1,154 USD,9.4,9.4,9.4
3,Hotel Quisisana,5,9.3,9.3,9.3,9.3,1,154 USD,9.3,9.3,9.3
4,Hotel Punta Tragara,5,9.2,9.2,9.2,9.2,1,154 USD,9.2,9.2,9.2
5,Hotel Luna,4,8.9,8.9,8.9,8.9,1,154 USD,8.9,8.9,8.9
6,Hotel Villa Sarah,4,8.8,8.8,8.8,8.8,1,154 USD,8.8,8.8,8.8
7,Hotel Pina,4,8.7,8.7,8.7,8.7,1,154 USD,8.7,8.7,8.7
8,Hotel Weber,4,8.6,8.6,8.6,8.6,1,154 USD,8.6,8.6,8.6
9,Hotel Bellevue,4,8.5,8.5,8.5,8.5,1,154 USD,8.5,8.5,8.5
10,Hotel Tiberio Palace,4,8.4,8.4,8.4,8.4,1,154 USD,8.4,8.4,8.4
11,Hotel Capri,4,8.3,8.3,8.3,8.3,1,154 USD,8.3,8.3,8.3
12,Hotel Belsito,3,8.2,8.2,8.2,8.2,1,154 USD,8.2,8.2,8.2
13,Hotel Marina Grande,3,8.1,8.1,8.1,8.1,1,154 USD,8.1,8.1,8.1
14,Hotel Minerva,3,8.0,8.0,8.0,8.0,1,154 USD,8.0,8.0,8.0
15,Hotel Gradola,3,7.9,7.9,7.9,7.9,1,154 USD,7.9,7.9,7.9
16,Hotel Fenicia,3,7.8,7.8,7.8,7.8,1,154 USD,7.8,7.8,7.8
17,Hotel Flora,3,7.7,7.7,7.7,7.7,1,154 USD,7.7,7.7,7.7
18,Hotel Faro,3,7.6,7.6,7.6,7.6,1,154 USD,7.6,7.6,7.6
19,Hotel Ischia,3,7.5,7.5,7.5,7.5,1,154 USD,7.5,7.5,7.5
20,Hotel Ischia Porto,3,7.4,7.4,7.4,7.4,1,154 USD,7.4,7.4,7.4
21,Hotel Terme Vitarelli,3,7.3,7.3,7.3,7.3,1,154 USD,7.3,7.3,7.3
22,Hotel Mediterraneo,3,7.2,7.2,7.2,7.2,1,154 USD,7.2,7.2,7.2
23,Hotel Continental,3,7.1,7.1,7.1,7.1,1,154 USD,7.1,7.1,7.1
24,Hotel Villa Maria,2,7.0,7.0,7.0,7.0,1,154 USD,7.0,7.0,7.0
25,Hotel Terme Boccatalla,2,6.9,6.9,6.9,6.9,1,154 USD,6.9,6.9,6.9
26,Hotel Syrene,2,6.8,6.8,6.8,6.8,1,154 USD,6.8,6.8,6.8
27,Hotel Rina,2,6.7,6.7,6.7,6.7,1,154 USD,6.7,6.7,6.7
28,Hotel Pergola,2,6.6,6.6,6.6,6.6,1,154 USD,6.6,6.6,6.6
29,Hotel Mediterraneo Capri,2,6.5,6.5,6.5,6.5,1,154 USD,6.5,6.5,6.5
30,Hotel Leonardo,2,6.4,6.4,6.4,6.4,1,154 USD,6.4,6.4,6.4
31,Hotel Ischitella,2,6.3,6.3,6.3,6.3,1,154 USD,6.3,6.3,6.3
32,Hotel Fortuna,2,6.2,6.2,6.2,6.2,1,154 USD,6.2,6.2,6.2
33,Hotel Ischia Image,2,6.1,6.1,6.1,6.1,1,154 USD,6.1,6.1,6.1
34,Hotel Casa Di Lidia,2,6.0,6.0,6.0,6.0,1,154 USD,6.0,6.0,6.0
35,Hotel Miami,2,5.9,5.9,5.9,5.9,1,154 USD,5.9,5.9,5.9
36,Hotel Mediterraneo Capri,2,5.8,5.8,5.8,5.8,1,154 USD,5.8,5.8,5.8
37,Hotel Giardino Di Cinzia,2,5.7,5.7,5.7,5.7,1,154 USD,5.7,5.7,5.7
38,Hotel Cristina,2,5.6,5.6,5.6,5.6,1,154 USD,5.6,5.6,5.6
39,Hotel Continental Capri,2,5.5,5.5,5.5,5.5,1,154 USD,5.5,5.5,5.5
40,Hotel Belsito,2,5.4,5.4,5.4,5.4,1,154 USD,5.4,5.4,5.4
41,Hotel Bellevue,2,5.3,5.3,5.3,5.3,1,154 USD,5.3,5.3,5.3
42,Hotel Ischitella,2,5.2,5.2,5.2,5.2,1,154 USD,5.2,5.2,5.2
43,Hotel Fortuna,2,5.1,5.1,5.1,5.1,1,154 USD,5.1,5.1,5.1
44,Hotel Ischia Image,2,5.0,5.0,5.0,5.0,1,154 USD,5.0,5.0,5.0
45,Hotel Miami,2,4.9,4.9,4.9,4.9,1,154 USD,4.9,4.9,4.9
46,Hotel Mediterraneo Capri,2,4.8,4.8,4.8,4.8,1,154 USD,4.8,4.8,4.8
47,Hotel Giardino Di Cinzia,2,4.7,4.7,4.7,4.7,1,154 USD,4.7,4.7,4.7
48,Hotel Cristina,2,4.6,4.6,4.6,4.6,1,154 USD,4.6,4.6,4.6
49,Hotel Continental Capri,2,4.5,4.5,4.5,4.5,1,154 USD,4.5,4.5,4.5
50,Hotel Belsito,2,4.4,4.4,4.4,4.4,1,154 USD,4.4,4.4,4.4
51,Hotel Bellevue,2,4.3,4.3,4.3,4.3,1,154 USD,4.3,4.3,4.3
52,Hotel Ischitella,2,4.2,4.2,4.2,4.2,1,154 USD,4.2,4.2,4.2
53,Hotel Fortuna,2,4.1,4.1,4.1,4.1,1,154 USD,4.1,4.1,4.1
54,Hotel Ischia Image,2,4.0,4.0,4.0,4.0,1,154 USD,4.0,4.0,4.0
55,Hotel Miami,2,3.9,3.9,3.9,3.9,1,154 USD,3.9,3.9,3.9
56,Hotel Mediterraneo Capri,2,3.8,3.8,3.8,3.8,1,154 USD,3.8,3.8,3.8
57,Hotel Giardino Di Cinzia,2,3.7,3.7,3.7,3.7,1,154 USD,3.7,3.7,3.7
58,Hotel Cristina,2,3.6,3.6,3.6,3.6,1,154 USD,3.6,3.6,3.6
59,Hotel Continental Capri,2,3.5,3.5,3.5,3.5,1,154 USD,3.5,3.5,3.5
60,Hotel Belsito,2,3.4,3.4,3.4,3.4,1,154 USD,3.4,3.4,3.4
61,Hotel Bellevue,2,3.3,3.3,3.3,3.3,1,154 USD,3.3,3.3,3.3
62,Hotel Ischitella,2,3.2,3.2,3.2,3.2,1,154 USD,3.2,3.2,3.2
63,Hotel Fortuna,2,3.1,3.1,3.1,3.1,1,154 USD,3.1,3.1,3.1
64,Hotel Ischia Image,2,3.0,3.0,3.0,3.0,1,154 USD,3.0,3.0,3.0
65,Hotel Miami,2,2.9,2.9,2.9,2.9,1,154 USD,2.9,2.9,2.9
66,Hotel Mediterraneo Capri,2,2.8,2.8,2.8,2.8,1,154 USD,2.8,2.8,2.8
67,Hotel Giardino Di Cinzia,2,2.7,2.7,2.7,2.7,1,154 USD,2.7,2.7,2.7
68,Hotel Cristina,2,2.6,2.6,2.6,2.6,1,154 USD,2.6,2.6,2.6
69,Hotel Continental Capri,2,2.5,2.5,2.5,2.5,1,154 USD,2.5,2.5,2.5
70,Hotel Belsito,2,2.4,2.4,2.4,2.4,1,154 USD,2.4,2.4,2.4
71,Hotel Bellevue,2,2.3,2.3,2.3,2.3,1,154 USD,2.3,2.3,2.3
72,Hotel Ischitella,2,2.2,2.2,2.2,2.2,1,154 USD,2.2,2.2,2.2
73,Hotel Fortuna,2,2.1,2.1,2.1,2.1,1,154 USD,2.1,2.1,2.1
74,Hotel Ischia Image,2,2.0,2.0,2.0,2.0,1,154 USD,2.0,2.0,2.0
75,Hotel Miami,2,1.9,1.9,1.9,1.9,1,154 USD,1.9,1.9,1.9
76,Hotel Mediterraneo Capri,2,1.8,1.8,1.8,1.8,1,154 USD,1.8,1.8,1.8
77,Hotel Giardino Di Cinzia,
```

Guesthouse Ui-En	9.5	9.3	9.4	9.8	2.3e+03	9.6	9.3	9.4	1
HOSTEL HYAKU	9.5	8.9	9.3	9.7	2.7e+03	10	9.4	9.7	1
HOSTEL WASABI Osaka Bed with Library	9	8.1	9.5	9.2	1.5e+03	9.1	8.7	8.2	1
Home Hostel Osaka	9.7	8.7	9.7	9.7	2.9e+03	9.9	10	9.9	1
Hostel 64 Osaka	8.6	8.2	8.1	9	2.7e+03	8.6	8.2	9.1	1
Hostel Bushi	8.9	8.5	8.6	9.2	1.9e+03	8.8	8.9	8.8	1
Hostel Chillout	9.7	9.4	10	10	2.3e+03	9.4	9.1	9.4	1
Hostel Ebisutei Souzou with Sake Bar	9.4	9.7	9.5	9.6	2.4e+03	9	9	8.3	1
Hostel Enisia Namba	9.2	8.7	10	9.3	3e+03	9.2	9.3	9.5	1
Hostel Jin	10	8.8	8.6	9.8	2.5e+03	10	9.8	9.8	1
Hostel LinK.Lodging & Kici	9.5	9.2	9.5	9.5	3.3e+03	10	9.3	9.3	1
Hostel Mitsuwaya Osaka	9.6	9.4	9.1	9.9	3.2e+03	10	9.7	9.7	1
Hostel Q	8.3	9	9.7	9.3	2.9e+03	7.3	8	9	1
Hostel Rakutsuki	9.8	9.3	9.8	9.8	1.9e+03	9.5	8.7	9.8	1
Hostel Tefel Bouzu	9	9	8.3	9.3	2.5e+03	9	9	9.3	1
Hostel moku-moku	9.5	9	9.5	9.5	3.5e+03	10	10	10	1
Hotel Cargo Shinsaibashi	9.6	8.4	8.8	10	4.2e+03	9.6	8.8	9.6	1
Hotel Mikado	9.3	9.3	9.3	9.3	2e+03	7.3	8	8	1
Hotel Raizan South	9	7	9	8	2e+03	7	9	8	1
Hotel Taiyo	8	7.3	8.7	8	1.5e+03	8	8	8.7	1
Ikidane House Namba	9.6	8.9	8.8	9.6	1.2e+03	9.6	9.7	8.9	1
J-Hoppers Osaka Guesthouse	9.6	9.5	9.5	9.7	2.3e+03	9.6	9.2	9.6	1
J-Hoppers Osaka Universal	9.5	9.3	8.7	10	2.5e+03	9.7	9.2	9.7	1
Kan's House	9	7.5	9.5	9	2e+03	9	8	8	1
Khaosan World Namba	8.4	7.4	9.1	9	2.1e+03	8.4	8.4	8.9	1
Khaosan World Tennoji Hostel	8	8.3	9.3	9.3	2.3e+03	9.7	9.7	8.7	1
Kintetsu Friendly Hostel -Osaka Tennoji Park-	9	7.8	9.4	9.1	2e+03	9.5	9.1	9.3	1
Lore Hostel Dontonbori	8.9	7.1	9.7	8.6	2e+03	7.7	8.6	9.1	1
Osaka Fuku Hostel Nagomi	9.2	8.7	9.8	9.6	3e+03	9.6	9	8.9	1
Osaka Fuku Hostel Namba	8.4	8.5	9.7	9.6	3e+03	9	8.3	8.8	1
Osaka Guest House Midoriya	9.7	9.7	9.4	10	2.8e+03	10	9.6	9.7	1
Osaka Guesthouse KOMA	8.8	8	9.1	9.1	1.5e+03	7.5	7.8	7.9	1
Osaka Guesthouse Hive	8	7.6	8.5	8.5	2.3e+03	8.6	8	8.6	1
Osaka Guesthouse Nest	8	7.8	8.7	9.2	1.5e+03	9	8.2	8.3	1
Osaka Guesthouse SUN	9.4	8.8	9.5	9.5	2.3e+03	9	8.5	8.8	1
Osaka Guesthouse Sakura	9.2	8.9	8.3	9.4	2.5e+03	8.9	8.4	8.5	1
Osaka Hana Hostel	9.6	8.5	9.8	9.8	2.9e+03	9.6	9.6	9.5	1
Osaka Hostel Kai	9.7	8.9	8.6	9.7	2.6e+03	9.1	8.9	8.9	1
Osaka Namba Hostel MYABI	9.4	7.6	9.3	9.2	2e+03	9.1	8.8	9	1
Peace House Abeno	9.3	9	8.2	9.1	1.2e+03	9.1	9.1	9.1	1
Peace House Sachi	8.8	8.8	8.9	9.2	1.2e+03	8.2	7.9	8.4	1
Peace House Suzunami	8.2	8.4	8.7	8.9	1.2e+03	7.1	7.9	8	1
Picnic Hostel Osaka	9.6	8.6	9.5	9.5	2e+03	9.8	9.4	9.5	1
Prime Inn Shinsaibashi	9.3	8.7	9.3	9.3	2.6e+03	9.3	8.7	10	1
Sakura La An	9.7	9.3	9.2	9.8	2.9e+03	9.8	9.5	9.6	1
Senba Hostel	8.5	9	9	9	3.5e+03	9.5	9	9.5	1
Shin-Osaka Tomato Guest House	9.4	7.4	8.4	9.6	1.5e+03	9.6	9.1	9.3	1
Shin-Osaka Youth Hostel	9	7	9	8	3.2e+03	10	9	10	1
Tanlit Backpackers Osaka	8.7	8.8	9.5	9.5	2e+03	8.9	8.6	9.2	1
The Blend Inn	9.6	9.8	8.5	9.9	2.3e+03	9.9	9.5	10	1
The Pax Hostel/Records/More	9.5	9.5	9.4	9.9	2.3e+03	9.4	9.3	9.4	1
Very Hostel Namba	9.2	8.8	8.8	9.2	2.5e+03	9.2	9.2	8.4	1
Ibiha Hostel Namba Shinsaibashi	9.4	8.7	9.6	8.5	2.6e+03	9.6	9.2	9.2	1

```
str(osaka_hostels)
```

```
## tibble [51 × 10] (S3: tbl_df/tbl/data.frame)
##  $ hostel       : chr [1:51] "7 Nine & Bed\" Charinko Hostel\" \"Air Osaka Hostel\" \"Ark Hotel\" \"B&B Box Cube Ø Kitaashiberi\" ...
##  $ wor          : num [1:51] 9.6 9.5 9 9.3 9.2 9.2 9.3 8.6 9 ...
##  $ Atmosphere_Ave: num [1:51] 8.5 9.5 8.7 7.5 8.4 8.8 9.7 7.5 10 ...
##  $ loc          : num [1:51] 8.8 8.8 8.8 8.5 8.9 9.5 8.8 9.1 9.5 10 ...
##  $ st           : num [1:51] 9.3 9.8 9.2 9 9.3 9.2 9.7 10 8.9 10 ...
##  $ price        : num [1:51] 2300 1600 2700 2600 1500 2200 2900 2900 1800 3000 ...
##  $ clean        : num [1:51] 9.4 9.2 9.2 9.2 9.2 9.2 9.5 9.1 10 ...
##  $ fac          : num [1:51] 9.2 9.7 8.9 8 8.5 8.1 8.7 9.3 9.4 10 ...
##  $ sec          : num [1:51] 9.8 9.1 10 9.3 8.8 9.9 10 8.9 10 ...
##  $ acc          : num [1:51] 1 1 1 1 1 1 1 1 1 ...

omean <- mean(osaka_hostels$price)
min <- min(osaka_hostels$price)
max <- max(osaka_hostels$price)
```

As the second largest city in Japan, Osaka has a mean price for a hostel with a score of 8 and location rating of 8 at 2360.56, minimum price is 1200 and maximum is 4200 per night.

#Kyoto

```
Kyoto_hostels = Kyoto %>%
  group_by(hostel)%>%
  filter(stars.price <= 5000, 'score' > 8, location > 8) %>%
  summarise(wor=mean(worth), Atmosphere_Ave=mean(atmosphere),
            loc=mean(location),st=mean(staff),
            price=mean(stars.price),clean=mean(cleanliness),
            fac=mean(facilities),sec=mean(security),acc=n())
data.frame(Kyoto_hostels)
```

hostel	wor	Atmosphere_Ave	loc	st	price	clean	fac	sec	acc
Backpackers Hostel K's House Kyoto	9.1	9	9.1	9.4	1.8e+03	9.3	9.2	9.5	1
Bird Hostel	9.4	8.9	9.4	9.5	2.7e+03	9.5	9.5	9.2	1
Book and Bed Tokyo - Kyoto	8	9	9.5	10	3.8e+03	10	8.5	8.5	1
Capsule Resort Kyoto Square	9.1	9.1	10	9.8	3.1e+03	10	9.8	9.8	1
Centurion Cabin & Spa Kyoto	8.6	7.9	9.8	8.5	2.5e+03	9.6	9.1	8.9	1
Chagarjutel	10	10	9	10	3.3e+03	10	9	9	1
Comics & CapsuleHotel COMICAP kyotoshinkyogoku	9.7	9.1	9.8	9.3	2e+03	9.8	9.8	9.4	1
Downtown Inn Kyoto	9.7	8.9	9.1	8.6	1e+03	9.7	9.7	9.1	1
Fairfield House	9.7	9.1	8.7	9.6	1.7e+03	9.6	9.4	9.3	1
Friends Kyo	10	10	10	10	2.2e+03	10	10	10	1
Gion Ryokan Q-beh	9.6	9	9.8	9.5	2.8e+03	9.8	9.5	9.3	1
Gojo Guest House	9.8	9.6	9.6	10	2e+03	9.5	8.8	9.3	1
Gojo Guesthouse - Annex	10	8.7	9.3	10	2.5e+03	10	9.3	10	1
Grids Kyoto Shijo Kawaramachi Hotel & Hostel	9.8	8.9	10	9.8	1.8e+03	10	9.5	10	1
Guest House Bola-Bola	9.4	9.3	8.8	9.9	2.7e+03	9.9	9	9.4	1
Guest House Ga-Jyun	9.9	9.6	9.4	9.9	2e+03	9.7	9.4	9.4	1
Guest House Hachi	10	10	10	10	3.2e+03	10	10	10	1
Guest House Hitsuji-An	9.5	9.5	10	10	2.2e+03	10	9.5	10	1
Guest House Kyoto Inn	8.9	8.7	8.1	9.4	1.5e+03	9.4	9	8.6	1
Guest House Renjishi Kabuki	8.6	8	8.7	9.8	1.5e+03	8.9	7.9	9	1
Guest House Shiori Ann	10	6	9	9	1.5e+03	8	10	10	1
Guest House YULULU	8.3	8.3	9.5	9.4	1.5e+03	8.6	7.8	8.5	1
Guesthouse Origami	8	7.7	8.6	8.9	1.5e+03	7.1	7.7	8.6	1
Guesthouse Sol	9.8	9.4	8.8	9.8	1.7e+03	9.6	9.6	9.4	1
HARUYA Hostels Aqua	9	9	9	9	1.5e+03	9	9	9	1
Hostel Elzi	9.6	9.4	9.8	9.8	2.5e+03	9.9	9.5	9.7	1
Hostel HARUYA Kyoto	9	8	10	10	1.5e+03	10	10	10	1
Hostel Kyoto Kizuna	9.6	8.6	9.2	9.6	1.8e+03	9.9	9.5	9.6	1
Hostel Mundo Chiquito	9.8	9	9	10	1.4e+03	9.8	9.5	9.8	1
Inaho Kyoto Kiyomizu Hostel	9.3	8.8	9.1	9.2	1.9e+03	9.8	9.3	9.4	1
J-Hoppers Kyoto Guest House	9.3	8.4	8.9	9.7	1.9e+03	9.1	8.3	9.4	1
Jam Hostel Kyoto Gion	7.9	7	9.4	6.9	1.5e+03	8	7	8	1
Jiyujin	9.7	9	9.5	9.7	2.6e+03	10	9.8	10	1
Khaosan Kyoto Guest House	8.9	8.2	9.6	9	2e+03	8.8	8.5	9.1	1
Kyoto Ee Open Hostel	9.3	8.7	9.3	9.3	3.4e+03	9.3	8.7	8.7	1
Kyoto Hana Hostel	8.6	8.1	9.8	9.2	1.8e+03	9.1	8.3	8.7	1
Kyoto Mono Hostel	9.8	9.4	9.3	9.8	2.8e+03	9.8	9.8	9.8	1
Len Kyoto	9.5	9.6	9.7	9.8	2.5e+03	9.6	9.7	9.6	1
Mosaic Hostel Kyoto	9.5	9.5	9.3	9.7	2.5e+03	9.7	9.7	9.7	1
OK's Inn	9.2	8.8	10	10	2.5e+03	9.6	9.2	8.8	1
Okara Guesthouse	9.4	9.2	9.2	9.4	1.9e+03	9.8	9.4	9.4	1
Piece Hostel Kyoto	9.6	9.2	9.8	9.9	2.7e+03	9.9	9.8	9.9	1
Piece Hostel Sanjo	9.6	9.1	9.8	9.9	2.9e+03	9.8	9.7	9.8	1
R.Star Hostel Kyoto	9.6	8.7	9.3	9.8	2.4e+03	10	9.7	9.8	1
RokuRoku	10	10	9	9	2.5e+03	10	10	10	1
Santiago Guesthouse Kyoto	8.8	8.4	8.5	9.2	1.3e+03	9.3	8.7	8.7	1
Suzuki Guesthouse	8.9	8.6	8.4	9.6	1.6e+03	9.6	8.7	9.8	1
THE NEXT OOOR lower east nine hostel	9.7	8.6	9	9.8	3e+03	9.7	9.9	9.6	1
Tabiterna Nijo Castle	8.7	8.5	8.9	9	1.5e+03	9.3	8.6	9	1
Tallout	10	10	10	10	2e+03	10	10	10	1
Tanaka Gokurakudo Guest House	8.4	8.2	9.3	8.9	2e+03	9.1	8	8.7	1
The Lower East Nine Hostel	9.2	8.8	8.9	9.6	3e+03	9.8	9.6	9.7	1
The Millennials Kyoto	9.5	9.3	9.9	9.4	2.7e+03	9.8	9.8	9.6	1
The Prime Pod Kyoto	9.6	9.4	9.8	9.9	2.5e+03	10	10	9.9	1

```
str(Kyoto_hostels)
```

```
## tibble [34 × 10] (S3: tbl_df/tbl/data.frame)
##  $ hostel       : chr [1:34] "Backpackers Hostel K's House Kyoto" "Bird Hostel" "Book and Bed Tokyo - Kyoto" "Capsule Resort Kyoto Square" ...
##  $ wor          : num [1:34] 9.1 9.4 8 9.1 8.6 10 9.7 9.7 10 ...
##  $ Atmosphere_Ave: num [1:34] 9 8.9 9 9.1 7.9 10 9.1 8.9 9.1 10 ...
##  $ loc          : num [1:34] 9.1 9.4 9.5 10 9.8 9.5 9.8 9.1 8.7 10 ...
##  $ st           : num [1:34] 9.4 9.5 10 9.8 8.5 10 9.3 9.4 10 ...
##  $ price        : num [1:34] 1800 2700 3800 3100 2500 2200 3000 1500 1700 3200 ...
##  $ clean        : num [1:34] 9.3 9.5 10 10 9.6 10 9.8 9.5 9.2 10 ...
##  $ fac          : num [1:34] 9.2 8.5 8.5 9.8 8.1 9 9.8 9.7 9.4 10 ...
##  $ sec          : num [1:34] 9.5 9.2 8.5 9.8 8.9 9 9.4 9.1 9.3 10 ...
##  $ acc          : num [1:34] 1 1 1 1 1 1 1 1 1 1 ...

kmean <- mean(Kyoto_hostels$price)
kmin <- min(Kyoto_hostels$price)
kmax <- max(Kyoto_hostels$price)
```

Known to its rich culture, Kyoto has a mean price for a hostel with a score of 8 and location rating of 8 at 2201.85, minimum price is 1000 and maximum is 3800 per night.

#Hiroshima

```
Hiroshima_hostels = Hiroshima %>%
  group_by(hostel)%>%
  filter(stars.price <= 5000, 'score' > 8, location > 8) %>%
  summarise(wor=mean(worth), Atmosphere_Ave=mean(atmosphere),
            loc=mean(location),st=mean(staff),
            price=mean(stars.price),clean=mean(cleanliness),
            fac=mean(facilities),sec=mean(security),acc=n())
data.frame(Hiroshima_hostels)
```

hostel	wor	Atmosphere_Ave	loc	st	price	clean	fac	sec	acc
3Hostel	9.5	8.8	9.6	9.8	2e+03	9.9	9.2	9.8	1
Backpackers Hostel K's House Hiroshima	9.3	9	9.4	9.7	2.6e+03	9.5	9.2	9.5	1
Guest House Raku	9.4	9.5	9	9.8	2.8e+03	9.5	9	9.2	1
Guesthouse Hiroshima Mange Tak	9.3	8.9	9.6	9.7	2.8e+03	9.8	9.4	8.6	1
Hiroshima Hana Hostel	9	8.1	9.4	9.5	2.3e+03	9.3	8.8	8.9	1
Hiroshima Hostel EN	9.7	9.8	9.3	9.8	3e+03	9.7	9.3	9.3	1
Hostel & Cafe Bar Backpackers Miyajima	8.9	9.2	9.2	9.6	2.9e+03	9.3	9	9.1	1
Hostel Mallika	9.3	8.5	9.7	8.6	2.5e+03	9.5	9.2	9.4	1
J-Hoppers Hiroshima Guesthouse	9.2	8.5	9.3	9.4	2.3e+03	9.3	9	9.3	1
Kyoubashi Ryokan	10	6	10	8	3.4e+03	10	6	10	1
Santiago Guesthouse Hiroshima	8.8	8.5	9.6	8.6	2e+03	8.9	8.7	9	1
The Evergreen Hostel	9	8.6	9.2	9.3	2e+03	9.1	8.7	8.9	1

```
str(Hiroshima_hostels)
```

```
## tibble [12 × 10] (S3: tbl_df/tbl/data.frame)
##  $ hostel       : chr [1:12] "3Hostel" "Backpackers Hostel K's House Hiroshima" "Guest House Raku" "Guesthouse Hiroshima Mange Tak" ...
##  $ wor          : num [1:12] 9.5 9.3 9.4 9.3 9 9.7 9.9 9.3 9.2 10 ...
##  $ Atmosphere_Ave: num [1:12] 8.8 9 9.5 9.8 8.1 9.8 8.9 8.5 8.6 6 ...
##  $ loc          : num [1:12] 9.6 9.4 9 9.4 9.4 9.3 9.2 9.2 9.2 10 ...
##  $ st           : num [1:12] 9.8 9.7 9.8 9.7 9.5 9.8 9.6 9.4 9 4 ...
##  $ price        : num [1:12] 2000 2600 2800 2800 2300 3000 2900 2500 2300 3400 ...
##  $ clean        : num [1:12] 9.9 9.3 9.5 9.8 9.3 9.7 9.8 9.3 9.3 10 ...
##  $ fac          : num [1:12] 9.2 9.2 9 9.4 8.8 9.3 9 9.2 9 4 ...
##  $ sec          : num [1:12] 9.8 9.3 9.8 9.3 8.9 9.3 9.1 9.4 9.1 10 ...
##  $ acc          : num [1:12] 1 1 1 1 1 1 1 1 1 1 ...

kmean <- mean(Hiroshima_hostels$price)
kmin <- min(Hiroshima_hostels$price)
kmax <- max(Hiroshima_hostels$price)
```

Hiroshima has a mean price for a hostel with a score of 8 and location rating of 8 at 2558.33.81, minimum price is 2000 and maximum is 3400 per night.

#Fukuoka

```
Fukuoka_hostels = Fukuoka %>%
  group_by(hostel)%>%
  filter(stars.price <= 5000, 'score' > 8, location > 8) %>%
  summarise(wor=mean(worth), Atmosphere_Ave=mean(atmosphere),
            loc=mean(location),st=mean(staff),
            price=mean(stars.price),clean=mean(cleanliness),
            fac=mean(facilities),sec=mean(security),acc=n())
data.frame(Fukuoka_hostels)
```

hostel	wor	Atmosphere_Ave	loc	st	price	clean	fac	sec	acc
& And Hostel	9.5	9.4	9.7	9.7	2.6e+03	9.7	9.5	9.2	1
Bed Stock	8.6	8.6	9.4	9	2.5e+03	9.9	8.1	8.9	1
Book And Bed Tokyo Fukuoka	8	8	10	10	4.3e+03	10	6	8	1
Common de Hostel & Bar	10	10	9	10	2.5e+03	10	10	10	1
Fukuoka Backpackers Hostel	8.1	7.5	8.2	8.9	2.3e+03	8.6	8	8.8	1
Fukuoka Hana Hostel	9	8.3	9.5	9.3	2.5e+03	9.2	8.8	9	1
Guest House Kaine	8.5	10	9	10	2.5e+03	9	8.5	7.5	1
HATAGO tenjin	8	8.7	10	7.3	2.3e+03	8.7	8.7	7.3	1
Kia Cra Budgetstay	8.8	8	9.2	9.8	2.6e+03	8.8	8.8	8.3	1
Nishitetsu Auto Guesthouse	10	10	10	10	2.8e+03	10	10	10	1
THE LIFE hostel & bar lounge	8.9	8.9	9.3	9.2	2.4e+03	9.4	9.2	8.8	1
Tabicelle Backpackers	10	10	10	10	2.5e+03	10	10	10	1
Wellbase HAKATA	9.3	9.4	9.7	9e+03	9.8	9.7	9.7	1
nontan HAKATA	9.5	9.3	8.8	9.5	3e+03	9.8	9.7	9.5	1

```
fmean <- mean(Fukuoka_hostels$price)
fmin <- min(Fukuoka_hostels$price)
fmax <- max(Fukuoka_hostels$price)
```

There are 14 observations among the hostels in the list with a start price of equal and less than 5000, score and location rated greater than 8. The minimum price is 2300 as listed, maximum is at 4300 and mean price is 2700.

```
rbind(omean,kmean,fmean,tmean,hmean,Hmean)
```

```
##       [,1]
## omean 2360.56
## kmean 2558.111
## fmean 2700.000
## tmean 2201.852
## hmean 2700.000
## Hmean 2700.000
```

Among the class B hostels, Fukuoka hostels have the highest mean at 2700, followed by Hiroshima at 2558, Tokyo at 2518, Osaka at 2360 and Kyoto at 2201.

```
rbind(omin,kmin,tmin,hmin,Hmin,fmin)
```

```
##     [,1]
## omin 1200
## kmin 2000
## tmin 1300
## hmin 1600
## Hmin 2300
## fmin 2300
```

Cheapest Class B hostels can be found at Kyoto at 1000 JPY per night, Osaka at 1200, followed by Tokyo at 1300, Hiroshima at 2000 and Fukuoka at 2300.

```
rbind(omax,kmax,tmax,hmax,Hmax,fmax)
```

```
##     [,1]
## omax 4200
## kmax 3400
## tmax 4100
## hmax 3800
## Hmax 4300
## fmax 4300
```

Maximum price of Class B hostels in Fukuoka is 4300, Osaka 14 4200, followed by Tokyo at 4100, Kyoto at 3800 and Hiroshima at 2000.