## RWorksheet\_Leysa#2

## Camilo Leysa

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```
\#Problem 1# a.
Sequence <- -5:5
print(Sequence)
## [1] -5 -4 -3 -2 -1 0 1 2 3 4 5
 b.
x < -1:7
print(x)
## [1] 1 2 3 4 5 6 7
\#Problem 2#
seq_function <-seq(1,3, by=0.2)</pre>
print(seq_function)
   [1] 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0
\#Problem 3\# a.
print(workers_age)
## [1] 34 28 22 36 27 18 52 39 42 29 35 31 27 22 37 34 19 20 57 49 50 37 46 25 17
## [26] 37 43 53 41 51 35 24 33 41 53 40 18 44 38 41 48 27 39 19 30 61 54 58 26 18
third <- workers_age[3]</pre>
print(third)
## [1] 22
```

b.

```
second_and_fourth <- workers_age[c(2,4)]</pre>
print(second_and_fourth)
## [1] 28 36
  c.
access_all <- workers_age[-c(4,12)]</pre>
print(access_all)
## [1] 34 28 22 27 18 52 39 42 29 35 27 22 37 34 19 20 57 49 50 37 46 25 17 37 43
## [26] 53 41 51 35 24 33 41 53 40 18 44 38 41 48 27 39 19 30 61 54 58 26 18
\#Problem 4\# a.
x <- c("first"=3, "second"=0, "third"=9)</pre>
names(x)
## [1] "first" "second" "third"
print(x)
## first second third
result <- x[c("first", "third")]</pre>
print(result)
## first third
      3
\#Problem 5\#
x < -3:2
x[2] < 0
## [1] -3 0 -1 0 1 2
#Problem 6# a.
months <- c("Jan", "Feb", "March", "Apr", "May", "June")</pre>
price_per_liter <- c(52.50,57.25,60.00,65.00,74.25, 54.00)
purchase_quantity_Liters<- c(25,30,40,50,10,45)</pre>
data_frame_diesel <-data.frame(Month=months,</pre>
Price_per_Liter=price_per_liter,
Purchase_Quantity_Liters= purchase_quantity_Liters)
print(data_frame_diesel)
```

```
##
     Month Price_per_Liter Purchase_Quantity_Liters
## 1
       Jan
                     52.50
## 2
       Feb
                     57.25
                                                  30
                     60.00
                                                  40
## 3 March
## 4
       Apr
                     65.00
                                                  50
## 5
                     74.25
                                                  10
       May
## 6
                     54.00
                                                  45
      June
  b.
weighted.mean(purchase_quantity_Liters)
## [1] 33.33333
\#Problem 7\# a.
data <- c(length(rivers), sum(rivers), mean(rivers), median(rivers), var(rivers), sd(rivers), min(river
## [1]
                                   591.1844
                                               425.0000 243908.4086
          141.0000 83357.0000
                                                                        493.8708
## [7]
          135.0000
                     3710.0000
#Problem 8# a.
celebrity_ranking<-data.frame(Power_Ranking= c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Celebrity_Name= c("Tom Cruise", "Rolling Stones", "Oprah Winfrey", "U2", "Tiger Woods", "Steven Spielb
Pay= c(67,90,225,110,90,332,302,41,52,88,55,44,55,40,233,34,40,47,75,25,39,45,32,40,31))
celebrity_ranking
##
      Power_Ranking
                          Celebrity_Name Pay
## 1
                               Tom Cruise
                  1
                                          67
                  2
## 2
                          Rolling Stones
                                          90
                  3
## 3
                           Oprah Winfrey 225
                  4
                                       U2 110
## 4
```

```
## 5
                  5
                              Tiger Woods 90
## 6
                  6
                         Steven Spielberg 332
                  7
                             Howard Stern 302
## 7
                                  50 Cent 41
## 8
                  8
## 9
                  9 Cast of the Sopranos
                                           52
## 10
                 10
                                Dan Brown
## 11
                 11
                        Bruce Springsteen
                                           55
## 12
                 12
                             Donald Trump
## 13
                 13
                             Muhammad Ali
                                           55
## 14
                 14
                           Paul McCartney
                                           40
## 15
                 15
                             George Lucas 233
## 16
                 16
                               Elton John 34
## 17
                 17
                          David Letterman
                                           40
                 18
                           Phil Mickelson
## 18
                                           47
## 19
                 19
                              J.K Rowling
                                           75
## 20
                 20
                               Bradd Pitt
                                           25
```

```
## 21
                  21
                            Peter Jackson
## 22
                  22
                          Dr. Phil McGraw
                                            45
## 23
                  23
                                 Jay Lenon
                                            32
## 24
                  24
                              Celine Dion
                                           40
## 25
                  25
                              Kobe Bryant
                                            31
```

b.

celebrity\_ranking[celebrity\_ranking\$Celebrity\_Name == "J.K Rowling", c("Power\_Ranking", "Pay")] <- c(15
print(celebrity\_ranking)</pre>

```
Power_Ranking
                            Celebrity_Name Pay
## 1
                                Tom Cruise
                   1
                                            67
## 2
                   2
                           Rolling Stones
                                            90
                   3
## 3
                            Oprah Winfrey 225
## 4
                   4
                                        U2 110
                               Tiger Woods
## 5
                   5
                                            90
## 6
                   6
                         Steven Spielberg 332
                   7
                              Howard Stern 302
## 7
                                   50 Cent 41
## 8
                   8
## 9
                   9 Cast of the Sopranos
                                             52
## 10
                  10
                                 Dan Brown
## 11
                  11
                        Bruce Springsteen
## 12
                              Donald Trump
                  12
                                             44
## 13
                  13
                              Muhammad Ali
## 14
                  14
                           Paul McCartney
                                             40
## 15
                  15
                              George Lucas 233
## 16
                  16
                                Elton John
                                             34
## 17
                  17
                          David Letterman
## 18
                  18
                           Phil Mickelson
## 19
                  15
                               J.K Rowling
                                             90
                  20
                                             25
## 20
                                Bradd Pitt
## 21
                  21
                            Peter Jackson
## 22
                          Dr. Phil McGraw
                  22
                                             45
## 23
                  23
                                 Jay Lenon
                                             32
                  24
                               Celine Dion
## 24
                                             40
## 25
                  25
                               Kobe Bryant
                                            31
```

c.

```
ranked_data <- read.csv("PowerRanking.csv")
print(ranked_data)</pre>
```

```
##
      Power.Ranking
                           Celebrity.Name Pay
## 1
                                             NA
## 2
                   1
                                Tom Cruise
                                            67
## 3
                   2
                           Rolling Stones
                                            90
## 4
                   3
                            Oprah Winfrey 225
                                        U2 110
## 5
                   4
## 6
                   5
                              Tiger Woods 90
## 7
                   6
                         Steven Spielberg 332
                   7
                             Howard Stern 302
## 8
```

```
## 9
                   8
                                    50 Cent
                                              41
## 10
                   9 Cast of the Sopranos
                                              52
## 11
                  10
                                  Dan Brown
## 12
                        Bruce Springsteen
                                              55
                  11
## 13
                  12
                              Donald Trump
                                              44
## 14
                  13
                              Muhammad Ali
                                              55
## 15
                  14
                            Paul McCartney
                                              40
## 16
                  15
                              George Lucas 233
## 17
                  16
                                 Elton John
                                              40
## 18
                  17
                           David Letterman
## 19
                  18
                            Phil Mickelson
## 20
                  19
                                J.K Rowling
                                              75
## 21
                  20
                                 Bradd Pitt
                                              25
## 22
                  21
                             Peter Jackson
                                              39
## 23
                  22
                           Dr. Phil McGraw
                                              45
## 24
                  23
                                  Jay Lenon
                                              32
## 25
                  24
                                Celine Dion
                                              40
## 26
                  25
                                Kobe Bryant
  d.
```

```
rows <- ranked_data[10:20,]
save(rows, file = "Ranks.RData")
print(rows)</pre>
```

```
##
      Power.Ranking
                            Celebrity.Name Pay
## 10
                   9 Cast of the Sopranos
                                             52
## 11
                  10
                                 Dan Brown
## 12
                       Bruce Springsteen
                                             55
                  11
## 13
                  12
                              Donald Trump
                  13
                              Muhammad Ali
## 14
                                             55
## 15
                  14
                            Paul McCartney
## 16
                  15
                              George Lucas 233
## 17
                  16
                                Elton John
## 18
                  17
                                             40
                           David Letterman
## 19
                            Phil Mickelson
                  18
                                             47
## 20
                  19
                               J.K Rowling 75
```

#Problem 9# a.

```
library(openxlsx)
hotels_data <- read.xlsx("hotels-vienna.xlsx")
hotels_data</pre>
```

```
##
       country city_actual rating_count center1label center2label
## 1
       Austria
                     Vienna
                                       36
                                           City centre
                                                           Donauturm
## 2
       Austria
                     Vienna
                                      189
                                           City centre
                                                           Donauturm
## 3
       Austria
                     Vienna
                                       53
                                           City centre
                                                           Donauturm
                                                           Donauturm
## 4
       Austria
                     Vienna
                                       55
                                           City centre
## 5
       Austria
                     Vienna
                                       33
                                           City centre
                                                           Donauturm
## 6
       Austria
                     Vienna
                                           City centre
                                                           Donauturm
## 7
       Austria
                     Vienna
                                           City centre
                                                           Donauturm
                                       57
```

##	8	Austria	Vienna	161	City	centre	Donauturm
##	9	Austria	Vienna	50	City	centre	Donauturm
##	10	Austria	Vienna	NA	$\mathtt{City}$	centre	Donauturm
##	11	Austria	Vienna	203	$\mathtt{City}$	centre	Donauturm
##	12	Austria	Vienna	251	$\mathtt{City}$	centre	Donauturm
##	13	Austria	Vienna	142	$\mathtt{City}$	centre	Donauturm
##	14	Austria	Vienna	8	$\mathtt{City}$	centre	Donauturm
##	15	Austria	Vienna	NA	$\mathtt{City}$	centre	Donauturm
##	16	Austria	Vienna	18	$\mathtt{City}$	centre	Donauturm
##	17	Austria	Vienna	20	City	centre	Donauturm
##	18	Austria	Vienna	77	City	centre	Donauturm
	19	Austria	Vienna	76	City	centre	Donauturm
	20	Austria	Vienna	NA	City	centre	Donauturm
	21	Austria	Vienna	5	City	centre	Donauturm
	22	Austria	Vienna	77	City	centre	Donauturm
	23	Austria	Vienna	193		centre	Donauturm
	24	Austria	Vienna	94		centre	Donauturm
##		Austria	Vienna	1		centre	Donauturm
	26	Austria	Vienna	5	•	centre	Donauturm
	27	Austria	Vienna	178	•	centre	Donauturm
	28	Austria	Vienna	330	•	centre	Donauturm
	29	Austria	Vienna	6	•	centre	Donauturm
	30	Austria	Vienna	194		centre	Donauturm
	31	Austria	Vienna	9		centre	Donauturm
	32	Austria	Vienna	3	•	centre	Donauturm
	33	Austria	Vienna	1		centre	Donauturm
	34	Austria	Vienna	NA	•	centre	Donauturm
	35	Austria	Vienna	441	•	centre	Donauturm
	36	Austria	Vienna	1122	•	centre	Donauturm
	37	Austria	Vienna	362	•	centre	Donauturm
	38	Austria	Vienna	2	•	centre	Donauturm
	39	Austria	Vienna	525	•	centre	Donauturm
	40	Austria	Vienna	1		centre	Donauturm
	41	Austria	Vienna	113		centre	Donauturm
	42	Austria	Vienna	71	•	centre	Donauturm
	43	Austria	Vienna	1		centre	Donauturm
	44	Austria	Vienna	22		centre	Donauturm
	45	Austria	Vienna	366		centre	Donauturm
	46	Austria	Vienna	NA OO4	•	centre	Donauturm
	47	Austria	Vienna	821	•	centre	Donauturm
	48 49	Austria	Vienna	16	•	centre	Donauturm
		Austria	Vienna	23	•	centre	Donauturm
	50 51	Austria	Vienna Fischamend	38	•	centre	Donauturm
	52	Austria	Vienna	366 77	•	centre	Donauturm Donauturm
	53	Austria	Vienna Vienna	27	•	centre	Donauturm
	54	Austria	Vienna Vienna		•	centre centre	Donauturm
	55	Austria	Vienna Vienna		·	centre	Donauturm
	56	Austria	Vienna Vienna	78	•	centre	Donauturm
	57	Austria	Vienna Vienna		•	centre	Donauturm
	58	Austria	Vienna Vienna	73	_	centre	Donauturm
	59	Austria	Vienna Vienna	81	•	centre	Donauturm
	60	Austria	Vienna Vienna	271	•	centre	Donauturm
	61	Austria	Vienna Vienna	211	•	centre	Donauturm
ππ	01	nub of 1d	ATCIIII	211	отсу	COHOLE	Donauturiii

##	62	Austria	Vienna	5	City	centre	Donauturm
##	63	Austria	Vienna	316	City	centre	Donauturm
##	64	Austria	Vienna	28	City	centre	Donauturm
##	65	Austria	Vienna	336	City	centre	Donauturm
##	66	Austria	Vienna	83	City	centre	Donauturm
##	67	Austria	Vienna	NA	City	centre	Donauturm
##	68	Austria	Vienna	88	City	centre	Donauturm
##	69	Austria	Vienna	140	City	centre	Donauturm
##	70	Austria	Vienna	391	City	centre	Donauturm
##	71	Austria	Vienna	320	City	centre	Donauturm
##	72	Austria	Vienna	21	City	centre	Donauturm
##	73	Austria	Vienna	193	City	centre	Donauturm
##	74	Austria	Vienna	75	City	centre	Donauturm
##	75	Austria	Vienna	35	City	centre	Donauturm
##	76	Austria	Vienna	NA	City	centre	Donauturm
##	77	Austria	Vienna	NA	City	centre	Donauturm
##	78	Austria	Vienna	505	City	centre	Donauturm
##	79	Austria	Vienna	386	City	centre	Donauturm
##	80	Austria	Vienna	109	City	centre	Donauturm
##	81	Austria	Vienna	626	City	centre	Donauturm
##	82	Austria	Vienna	334	City	centre	Donauturm
##	83	Austria	Vienna	NA	City	centre	Donauturm
##	84	Austria	Vienna	NA	City	centre	Donauturm
##	85	Austria	Vienna	NA	City	centre	Donauturm
##	86	Austria	Vienna	NA	City	centre	Donauturm
##	87	Austria	Vienna	11	City	centre	Donauturm
##	88	Austria	Vienna	150	City	centre	Donauturm
##	89	Austria	Vienna	531	City	centre	Donauturm
##	90	Austria	Vienna	253	City	centre	Donauturm
##	91	Austria	Vienna	47	City	centre	Donauturm
##	92	Austria	Vienna	19	City	centre	Donauturm
##	93	Austria	Vienna	124	City	centre	Donauturm
##	94	Austria	Vienna	115	City	centre	Donauturm
##	95	Austria	Vienna	110	City	centre	Donauturm
##	96	Austria	Vienna	16	City	centre	Donauturm
##	97	Austria	Vienna	467	City	centre	Donauturm
##	98	Austria	Vienna	NA	City	centre	Donauturm
##	99	Austria	Vienna	650	City	centre	Donauturm
##	100	Austria	Vienna	95	City	centre	Donauturm
##	101	Austria	Vienna	564	City	centre	Donauturm
##	102	Austria	Vienna	168	City	centre	Donauturm
##	103	Austria	Vienna	NA	City	centre	Donauturm
##	104	Austria	Vienna	175	City	centre	Donauturm
##	105	Austria	Vienna	NA	City	centre	Donauturm
##	106	Austria	Vienna	426	City	centre	Donauturm
##	107	Austria	Vienna	1	City	centre	Donauturm
##	108	Austria	Vienna	148	•	centre	Donauturm
##	109	Austria	Vienna	163	City	centre	Donauturm
##	110	Austria	Vienna	493	City	centre	Donauturm
		Austria	Vienna	56	City	centre	Donauturm
##	112	Austria	Vienna	247		centre	Donauturm
##	113	Austria	Vienna	169	City	centre	Donauturm
		Austria	Vienna	1	_	centre	Donauturm
##	115	Austria	Vienna	599	City	centre	Donauturm

##	116 Austria	Vienna	258	City	centre	Donauturm
##	117 Austria	Vienna	703	$\mathtt{City}$	centre	Donauturm
##	118 Austria	Vienna	230	City	centre	Donauturm
##	119 Austria	Vienna	112	City	centre	Donauturm
##	120 Austria	Vienna	278	City	centre	Donauturm
##	121 Austria	Vienna	NA	City	centre	Donauturm
##	122 Austria	Vienna	81	City	centre	Donauturm
##	123 Austria	Vienna	NA	City	centre	Donauturm
##	124 Austria	Vienna	15	City	centre	Donauturm
##	125 Austria	Vienna	203	City	centre	Donauturm
##	126 Austria	Vienna	150	City	centre	Donauturm
##	127 Austria	Vienna	NA	City	centre	Donauturm
##	128 Austria	Vienna	NA	City	centre	Donauturm
##	129 Austria	Vienna	404	City	centre	Donauturm
##	130 Austria	Vienna	123	City	centre	Donauturm
##	131 Austria	Vienna	653	City	centre	Donauturm
##	132 Austria	Vienna	NA	City	centre	Donauturm
##	133 Austria	Vienna	388	City	centre	Donauturm
##	134 Austria	Vienna	1	City	centre	Donauturm
##	135 Austria	Vienna	230	City	centre	Donauturm
##	136 Austria	Vienna	69	City	centre	Donauturm
##	137 Austria	Vienna	34	City	centre	Donauturm
##	138 Austria	Vienna	6	City	centre	Donauturm
##	139 Austria	Vienna	102	City	centre	Donauturm
##	140 Austria	Vienna	65	City	centre	Donauturm
##	141 Austria	Vienna	9	City	centre	Donauturm
##	142 Austria	Vienna	11	City	centre	Donauturm
##	143 Austria	Vienna	51	City	centre	Donauturm
##	144 Austria	Vienna	298	City	centre	Donauturm
##	145 Austria	Vienna	354	City	centre	Donauturm
##	146 Austria	Vienna	92	City	centre	Donauturm
##	147 Austria	Vienna	66	City	centre	Donauturm
##	148 Austria	Vienna	NA	City	centre	Donauturm
##	149 Austria	Vienna	128	City	centre	Donauturm
##	150 Austria	Vienna	530	City	centre	Donauturm
##	151 Austria	Vienna	342	City	centre	Donauturm
##	152 Austria	Vienna	194	City	centre	Donauturm
##	153 Austria	Vienna	1		centre	Donauturm
##	154 Austria	Vienna	63	City	centre	Donauturm
##	155 Austria	Vienna	67	City	centre	Donauturm
##	156 Austria	Vienna	84	City	centre	Donauturm
##	157 Austria	Vienna	30	City	centre	Donauturm
##	158 Austria	Vienna	169	City	centre	Donauturm
##	159 Austria	Vienna	65	City	centre	Donauturm
##	160 Austria	Vienna	91	City	centre	Donauturm
##	161 Austria	Vienna	1	City	centre	Donauturm
##	162 Austria	Vienna	765	City	centre	Donauturm
##	163 Austria	Vienna	80	City	centre	Donauturm
##	164 Austria	Vienna	43	City	centre	Donauturm
##	165 Austria	Vienna	78	•	centre	Donauturm
##	166 Austria	Vienna	184	•	centre	Donauturm
##	167 Austria	Vienna	276		centre	Donauturm
##	168 Austria	Vienna	313		centre	Donauturm
##	169 Austria	Vienna	323	•	centre	Donauturm
				·		

##	170 Austria	Vienna	NA	City ce	ntre	Donauturm
##	171 Austria	Vienna	90	City ce	ntre	Donauturm
##	172 Austria	Vienna	140	City ce	ntre	Donauturm
##	173 Austria	Vienna	512	City ce	ntre	Donauturm
##	174 Austria	Vienna	NA	City ce	ntre	Donauturm
##	175 Austria	Vienna	340	City ce	ntre	Donauturm
##	176 Austria	Vienna	34	City ce	ntre	Donauturm
##	177 Austria	Vienna	26	City ce	ntre	Donauturm
##	178 Austria	Vienna	NA	City ce	ntre	Donauturm
##	179 Austria	Vienna	97	City ce	ntre	Donauturm
##	180 Austria	Vienna	11	City ce	ntre	Donauturm
##	181 Austria	Vienna	15	City ce	ntre	Donauturm
##	182 Austria	Vienna	84	City ce	ntre	Donauturm
##	183 Austria	Vienna	152	City ce	ntre	Donauturm
##	184 Austria	Vienna	3	City ce	ntre	Donauturm
##	185 Austria	Vienna	25	City ce	ntre	Donauturm
##	186 Austria	Vienna	181	City ce	ntre	Donauturm
##	187 Austria	Vienna	359	City ce	ntre	Donauturm
##	188 Austria	Vienna	160	City ce		Donauturm
##	189 Austria	Vienna	303	City ce	ntre	Donauturm
##	190 Austria	Vienna	254	City ce	ntre	Donauturm
##	191 Austria	Vienna	173	City ce	ntre	Donauturm
##	192 Austria	Vienna	114	City ce	ntre	Donauturm
##	193 Austria	Vienna	249	City ce	ntre	Donauturm
##	194 Austria	Vienna	1	City ce	ntre	Donauturm
##	195 Austria	Vienna	6	City ce		Donauturm
##	196 Austria	Vienna	13	City ce	ntre	Donauturm
##	197 Austria	Vienna	18	City ce	ntre	Donauturm
##	198 Austria	Vienna	497	City ce	ntre	Donauturm
##	199 Austria	Vienna	503	City ce	ntre	Donauturm
##	200 Austria	Vienna	70	City ce	ntre	Donauturm
##	201 Austria	Vienna	109	City ce	ntre	Donauturm
##	202 Austria	Vienna	171	City ce	ntre	Donauturm
##	203 Austria	Vienna	79	City ce	ntre	Donauturm
##	204 Austria	Vienna	13	City ce	ntre	Donauturm
##	205 Austria	Vienna	281	City ce		Donauturm
##	206 Austria	Vienna	108	-		Donauturm
##	207 Austria	Vienna	267			Donauturm
##	208 Austria	Vienna	183	City ce	ntre	Donauturm
##	209 Austria	Vienna	5	City ce	ntre	Donauturm
##	210 Austria	Vienna	136	City ce		Donauturm
##	211 Austria	Vienna		City ce		Donauturm
##	212 Austria	Vienna	242	City ce	ntre	Donauturm
##	213 Austria	Vienna	81	•		Donauturm
##	214 Austria	Vienna	16	City ce	ntre	Donauturm
##	215 Austria	Vienna	6	City ce	ntre	Donauturm
##	216 Austria	Vienna	122	City ce		Donauturm
##	217 Austria	Vienna	250	City ce		Donauturm
##	218 Austria	Vienna	603	•		Donauturm
##	219 Austria	Vienna	25	•		Donauturm
##	220 Austria	Vienna	52	•		Donauturm
	221 Austria	Vienna	152	J		Donauturm
##	222 Austria	Vienna	293	=		Donauturm
##	223 Austria	Vienna	1	City ce		Donauturm
				•		

		Austria	Vienna	84	•	centre	Donauturm
		Austria	Vienna	208	•	centre	Donauturm
		Austria	Vienna	29	•	centre	Donauturm
		Austria	Vienna	57	•	centre	Donauturm
		Austria	Vienna	267		centre	Donauturm
##	229	Austria	Vienna	275	City	centre	Donauturm
##	230	Austria	Vienna	23	City	centre	Donauturm
##	231	Austria	Vienna	NA	City	centre	Donauturm
		Austria	Vienna	240		centre	Donauturm
		Austria	Vienna	374		centre	Donauturm
		Austria	Vienna	468	-	centre	Donauturm
		Austria	Vienna	422	-	centre	Donauturm
		Austria	Vienna	307	•	centre	Donauturm
		Austria	Vienna	2	•	centre	Donauturm
		Austria	Vienna	527	•	centre	Donauturm
		Austria	Vienna	637	•	centre	Donauturm
		Austria	Vienna	461	•	centre	Donauturm
		Austria	Vienna	3		centre	Donauturm
		Austria	Vienna	104	City	centre	Donauturm
		Austria	Vienna	90	City	centre	Donauturm
##	244	Austria	Vienna	75		centre	Donauturm
##	245	Austria	Vienna	139	-	centre	Donauturm
##	246	Austria	Vienna	NA	-	centre	Donauturm
##	247	Austria	Vienna	41	City	centre	Donauturm
##	248	Austria	Vienna	122	City	centre	Donauturm
		Austria	Vienna	6	City	centre	Donauturm
		Austria	Vienna	NA	City	centre	Donauturm
		Austria	Vienna	137	City	centre	Donauturm
		Austria	Vienna	144	City	centre	Donauturm
		Austria	Vienna	80	City	centre	Donauturm
		Austria	Vienna	11	City	centre	Donauturm
		Austria	Vienna	58	City	centre	Donauturm
		Austria	Vienna	NA		centre	Donauturm
		Austria	Vienna	303	City	centre	Donauturm
		Austria	Vienna	NA		centre	Donauturm
		Austria	Vienna	82		centre	Donauturm
		Austria	Vienna	248	-	centre	Donauturm
		Austria	Vienna	151		centre	Donauturm
		Austria	Vienna	7	•	centre	Donauturm
		Austria	Vienna	2		centre	Donauturm
		Austria	Vienna	3		centre	Donauturm
		Austria	Vienna	85		centre	Donauturm
		Austria	Vienna	3		centre	Donauturm
		Austria	Vienna	258		centre	Donauturm
		Austria	Vienna	13	,	centre	Donauturm
		Austria	Vienna	95	•	centre	Donauturm
		Austria	Vienna	44	•	centre	Donauturm
		Austria	Vienna	125	J	centre	Donauturm
		Austria	Vienna	5	•	centre	Donauturm
		Austria	Vienna	161	J	centre	Donauturm
		Austria	Vienna	210	J	centre	Donauturm
		Austria	Vienna	264	J	centre	Donauturm
		Austria	Vienna	49	•	centre	Donauturm
##	211	Austria	Vienna	162	City	centre	Donauturm

		Austria	Vienna	581	_	centre	Donauturm
		Austria	Vienna	55	•	centre	Donauturm
		Austria	Vienna	39	-	centre	Donauturm
		Austria	Vienna	484	-	centre	Donauturm
##	282	Austria	Vienna	NA	City	centre	Donauturm
##	283	Austria	Vienna	NA	City	centre	Donauturm
##	284	Austria	Vienna	10	City	centre	Donauturm
##	285	Austria	Vienna	45	City	centre	Donauturm
		Austria	Vienna	98		centre	Donauturm
##	287	Austria	Vienna	239	City	centre	Donauturm
##	288	Austria	Vienna	170	•	centre	Donauturm
##	289	Austria	Vienna	100	City	centre	Donauturm
##	290	Austria	Vienna	310	City	centre	Donauturm
##	291	Austria	Vienna	305	City	centre	Donauturm
##	292	Austria	Vienna	105	City	centre	Donauturm
##	293	Austria	Vienna	6	City	centre	Donauturm
##	294	Austria	Vienna	1	City	centre	Donauturm
##	295	Austria	Vienna	141	City	centre	Donauturm
##	296	Austria	Vienna	14	City	centre	Donauturm
##	297	Austria	Vienna	6	City	centre	${\tt Donauturm}$
##	298	Austria	Vienna	328	City	centre	${\tt Donauturm}$
##	299	Austria	Vienna	123	City	centre	${\tt Donauturm}$
##	300	Austria	Vienna	181	City	centre	${\tt Donauturm}$
##	301	Austria	Vienna	77	City	centre	${\tt Donauturm}$
##	302	Austria	Vienna	308	City	centre	${\tt Donauturm}$
##	303	Austria	Vienna	54	City	centre	${\tt Donauturm}$
##	304	Austria	Vienna	544	City	centre	${\tt Donauturm}$
##	305	Austria	Vienna	359	City	centre	${\tt Donauturm}$
##	306	Austria	Vienna	3	City	centre	${\tt Donauturm}$
##	307	Austria	Vienna	NA	City	centre	${\tt Donauturm}$
##	308	Austria	Vienna	98	City	centre	${\tt Donauturm}$
##	309	Austria	Vienna	54	City	centre	${\tt Donauturm}$
##	310	Austria	Vienna	22	City	centre	${\tt Donauturm}$
##	311	Austria	Vienna	4	City	centre	${\tt Donauturm}$
##	312	Austria	Vienna	69	City	centre	${\tt Donauturm}$
##	313	Austria	Vienna	17	City	centre	${\tt Donauturm}$
##	314	Austria	Vienna	83	City	centre	${\tt Donauturm}$
##	315	Austria	Vienna	36	City	centre	${\tt Donauturm}$
##	316	Austria	Vienna	NA	City	centre	${\tt Donauturm}$
##	317	Austria	Vienna	153	City	centre	${\tt Donauturm}$
##	318	Austria	Vienna	136	City	centre	${\tt Donauturm}$
##	319	Austria	Vienna	17	City	centre	${\tt Donauturm}$
##	320	Austria	Vienna	156	City	centre	${\tt Donauturm}$
##	321	Austria	Vienna	81	City	centre	${\tt Donauturm}$
##	322	Austria	Vienna	40	City	centre	${\tt Donauturm}$
##	323	Austria	Vienna	54	City	centre	${\tt Donauturm}$
##	324	Austria	Vienna	13	City	centre	${\tt Donauturm}$
##	325	Austria	Vienna	225	City	centre	${\tt Donauturm}$
##	326	Austria	Vienna	144	City	centre	${\tt Donauturm}$
		Austria	Vienna	2	City	centre	${\tt Donauturm}$
		Austria	Vienna	525	•	centre	${\tt Donauturm}$
##	329	Austria	Vienna	113	City	centre	${\tt Donauturm}$
##	330	Austria	Vienna	10	City	centre	${\tt Donauturm}$
##	331	Austria	Vienna	2	City	centre	${\tt Donauturm}$

		Austria	Vienna	78		centre	Donauturm
		Austria	Vienna	69		centre	Donauturm
		Austria	Vienna	314		centre	Donauturm
		Austria	Vienna	134		centre	Donauturm
##	336	Austria	Vienna	38		centre	Donauturm
##	337	Austria	Vienna	65	City	centre	Donauturm
##	338	Austria	Vienna	92	City	centre	Donauturm
##	339	Austria	Vienna	100	City	centre	Donauturm
		Austria	Vienna	910		centre	Donauturm
		Austria	Vienna	79	•	centre	Donauturm
		Austria	Vienna	1541		centre	Donauturm
		Austria	Vienna	183		centre	Donauturm
		Austria	Vienna	30		centre	Donauturm
		Austria	Vienna	24		centre	Donauturm
		Austria	Vienna	18		centre	Donauturm
		Austria	Vienna	140		centre	Donauturm
		Austria	Vienna	14		centre	Donauturm
		Austria	Vienna	8	,	centre	Donauturm
		Austria	Schwechat	333	,	centre	Donauturm
		Austria	Schwechat	923	_	centre	Donauturm
		Austria	Schwechat	122	_	centre	Donauturm
		Austria	Schwechat	26		centre	Donauturm
		Austria	Schwechat	73		centre	Donauturm
		Austria	Schwechat	161		centre	Donauturm
		Austria	Schwechat	39		centre	Donauturm
		Austria	Vienna	NA		centre	Donauturm
		Austria	Vienna	2		centre	Donauturm
		Austria	Vienna	16		centre	Donauturm
		Austria	Vienna	124		centre	Donauturm
		Austria	Vienna	9		centre	Donauturm
		Austria	Vienna	33		centre	Donauturm
		Austria	Vienna	16		centre	Donauturm
		Austria	Vienna	57		centre	Donauturm
		Austria	Vienna	21		centre	Donauturm
		Austria	Vienna	160	-	centre	Donauturm
##		Austria	Vienna	985	_	centre	Donauturm
		Austria	Vienna	69 51	-	centre	Donauturm
		Austria	Vienna	51		centre	Donauturm
		Austria	Vienna	NA 72		centre	Donauturm
		Austria Austria	Vienna	65		centre	Donauturm
		Austria	Vienna Vienna		•	centre centre	Donauturm
		Austria	Vienna Vienna	45	•	centre	Donauturm
		Austria	Vienna Vienna	50			Donauturm Donauturm
		Austria	Vienna	27		centre	Donauturm
		Austria	Vienna	2	,	centre centre	Donauturm
		Austria	Vienna	12		centre	Donauturm
		Austria	Vienna	26		centre	Donauturm
		Austria	Vienna Vienna	28		centre	Donauturm
		Austria	Vienna	30		centre	Donauturm
		Austria	Vienna Vienna	1		centre	Donauturm
		Austria	Vienna	12		centre	Donauturm
		Austria	Vienna	171		centre	Donauturm
		Austria	Vienna	34		centre	Donauturm
11.11	550	1145 01 14	v I CIIII a	0-1	O ± U y	201101.6	Donaudurm

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## 386 Austria
                     Vienna
                                        69
                                            City centre
                                                             Donauturm
## 387 Austria
                     Vienna
                                        84
                                            City centre
                                                             Donauturm
                     Vienna
                                            City centre
  388 Austria
                                       212
                                                             Donauturm
  389 Austria
                     Vienna
                                            City centre
                                        15
                                                             Donauturm
   390 Austria
                     Vienna
                                            City centre
                                                             Donauturm
##
   391 Austria
                     Vienna
                                        89
                                            City centre
                                                             Donauturm
   392 Austria
                     Vienna
                                            City centre
                                                             Donauturm
## 393 Austria
                     Vienna
                                         3
                                            City centre
                                                             Donauturm
   394 Austria
                     Vienna
                                        44
                                            City centre
                                                             Donauturm
   395 Austria
                     Vienna
                                         6
                                            City centre
                                                             Donauturm
   396 Austria
                     Vienna
                                            City centre
                                                             Donauturm
  397 Austria
                     Vienna
                                         2
                                            City centre
                                                             Donauturm
   398 Austria
                     Vienna
                                        44
                                            City centre
                                                             Donauturm
   399 Austria
                     Vienna
                                            City centre
                                                             Donauturm
  400 Austria
                 Voesendorf
                                        38
                                            City centre
                                                             Donauturm
   401 Austria
                 Voesendorf
                                       115
                                            City centre
                                                             Donauturm
  402 Austria
                     Vienna
                                       186
                                            City centre
                                                             Donauturm
## 403 Austria
                     Vienna
                                        27
                                            City centre
                                                             Donauturm
## 404 Austria
                     Vienna
                                        45
                                            City centre
                                                             Donauturm
## 405 Austria
                     Vienna
                                       168
                                            City centre
                                                             Donauturm
## 406 Austria
                     Vienna
                                         1
                                            City centre
                                                             Donauturm
## 407 Austria
                     Vienna
                                        77
                                            City centre
                                                             Donauturm
## 408 Austria
                                        72
                                            City centre
                     Vienna
                                                             Donauturm
## 409 Austria
                     Vienna
                                       158
                                            City centre
                                                             Donauturm
## 410 Austria
                     Vienna
                                        15
                                            City centre
                                                             Donauturm
## 411 Austria
                     Vienna
                                       291
                                            City centre
                                                             Donauturm
## 412 Austria
                     Vienna
                                       317
                                            City centre
                                                             Donauturm
## 413 Austria
                     Vienna
                                       193
                                            City centre
                                                             Donauturm
## 414 Austria
                                       280
                     Vienna
                                            City centre
                                                             Donauturm
                                                             Donauturm
## 415 Austria
                     Vienna
                                        47
                                            City centre
## 416 Austria
                     Vienna
                                            City centre
                                                             Donauturm
## 417 Austria
                     Vienna
                                       125
                                            City centre
                                                             Donauturm
## 418 Austria
                     Vienna
                                            City centre
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## 419 Austria
                     Vienna
                                            City centre
                                       112
                                                             Donauturm
## 420 Austria
                     Vienna
                                            City centre
                                         1
                                                             Donauturm
## 421 Austria
                     Vienna
                                        77
                                            City centre
                                                             Donauturm
## 422 Austria
                     Vienna
                                       572
                                            City centre
                                                             Donauturm
## 423 Austria
                     Vienna
                                        53
                                            City centre
                                                             Donauturm
## 424 Austria
                     Vienna
                                            City centre
                                                             Donauturm
## 425 Austria
                     Vienna
                                       145
                                            City centre
                                                             Donauturm
## 426 Austria
                     Vienna
                                       112
                                            City centre
                                                             Donauturm
## 427 Austria
                     Vienna
                                       169
                                            City centre
                                                             Donauturm
  428 Austria
                     Vienna
                                        80
                                            City centre
                                                             Donauturm
##
               neighbourhood
                                       city stars ratingta
                                                            ratingta_count scarce_room
## 1
                 17. Hernals
                                 81 Vienna
                                              4.0
                                                        4.5
                                                                         216
                                                                                        1
## 2
                                              4.0
                                                                                        0
                 17. Hernals
                                                        3.5
                                                                         708
                                 81 Vienna
## 3
                  Alsergrund
                                 85 Vienna
                                              4.0
                                                        3.5
                                                                         629
                                                                                        0
## 4
                                                                                        0
                  Alsergrund
                                 83 Vienna
                                              3.0
                                                        4.0
                                                                         52
## 5
                  Alsergrund
                                 82 Vienna
                                              4.0
                                                        3.5
                                                                         219
                                                                                        1
## 6
                  Alsergrund
                                229 Vienna
                                              5.0
                                                        4.5
                                                                         27
                                                                                        1
## 7
                                                        3.5
                  Alsergrund
                                103 Vienna
                                              4.0
                                                                         251
                                                                                        1
## 8
                  Alsergrund
                                150 Vienna
                                              4.0
                                                        4.5
                                                                         617
                                                                                        0
## 9
                  Alsergrund
                                 80 Vienna
                                              2.0
                                                        3.5
                                                                         146
                                                                                        1
## 10
                  Alsergrund
                                153 Vienna
                                              3.0
                                                         NA
                                                                         NA
                                                                                        1
```

##		Alsergrund	60 Vienna	4.0	4.0	359	1
##		Alsergrund	128 Vienna	4.0	4.0	829	0
##		Alsergrund	100 Vienna	4.0	4.0	55	1
##		Alsergrund	143 Vienna	2.0	NA	NA	1
##		Alsergrund	106 Vienna	2.5	2.0	74	1
##	16	Alsergrund	85 Vienna	4.0	4.0	62	0
##	17	Alsergrund	77 Vienna	3.0	3.5	97	0
##	18	Alsergrund	78 Vienna	3.0	3.5	120	1
##	19	Alsergrund	78 Vienna	3.0	3.5	161	1
##	20	Donaustadt	260 Vienna	3.5	5.0	2	1
##	21	Donaustadt	158 Vienna	3.0	4.5	72	1
##	22	Donaustadt	77 Vienna	3.0	4.0	158	1
##	23	Donaustadt	77 Vienna	3.0	3.0	91	0
##	24	Donaustadt	95 Vienna	4.0	4.0	228	0
##	25	Donaustadt	156 Vienna	3.0	NA	NA	1
##	26	Donaustadt	145 Vienna	3.0	4.5	205	1
##	27	Donaustadt	208 Vienna	4.0	4.0	1085	1
##	28	Donaustadt	87 Vienna	3.0	3.5	423	1
##	29	Favoriten	131 Vienna	2.0	NA	NA	1
##	30	Favoriten	54 Vienna	3.0	4.0	522	0
##	31	Favoriten	139 Vienna	2.0	3.0	17	1
##	32	Favoriten	184 Vienna	2.0	NA	NA	1
##	33	Favoriten	127 Vienna	3.0	NA	NA	1
##	34	Favoriten	95 Vienna	3.0	NA	NA	1
##	35	Favoriten	99 Vienna	3.5	4.5	630	0
##	36	Favoriten	75 Vienna	3.5	4.5	573	0
##	37	Favoriten	76 Vienna	3.0	4.0	269	0
##	38	Favoriten	130 Vienna	2.0	NA	NA	1
##	39	Favoriten	91 Vienna	4.0	4.5	741	0
##	40	Favoriten	135 Vienna	2.0	NA	NA	1
##	41	Favoriten	56 Vienna	2.0	3.0	183	1
##	42	Favoriten	27 Vienna	2.0	3.5	216	1
##	43	Favoriten	88 Vienna	3.0	NA	NA	1
##		Favoriten	133 Vienna	2.0	NA	NA	1
##	45	Favoriten	33 Vienna	2.0	3.5	491	0
##		Favoriten	116 Vienna	3.5	NA	NA	0
##		Favoriten	71 Vienna	4.0	4.0	31	0
##		Favoriten	90 Vienna	3.5	NA	NA	1
##		Favoriten	84 Vienna	4.0	NA	NA	1
##		Favoriten	63 Vienna	3.0	NA	NA	0
##		Fischamend	59 Vienna	3.0	2.5	243	0
##		Graben	113 Vienna	3.0	4.0	259	0
##		Graben	218 Vienna	4.5	NA	NA	1
##		Graben	299 Vienna	5.0	4.5	702	1
##		Innere Stadt	156 Vienna	3.0	4.5	1347	1
##		Innere Stadt	513 Vienna	5.0	5.0	1126	1
##		Innere Stadt	133 Vienna	4.0	4.0	466	1
##		Innere Stadt	123 Vienna	4.0	3.5	47	1
##		Innere Stadt	219 Vienna	4.0	4.5	392	1
##		Innere Stadt	152 Vienna	4.0	4.0	261	0
##		Innere Stadt	115 Vienna	4.0	4.5	211	1
##		Innere Stadt	806 Vienna	5.0	4.5	114	0
##		Innere Stadt	138 Vienna	4.0	4.5	463	0
##		Innere Stadt			NA	NA	1
##	04	Timere Staut	95 Vienna	3.0	A VI	IVA	1

##	65	Innere	C+2d+	1/16	Vienna	4.0	4.0	714	0
##		Innere			Vienna	3.0	4.0	159	0
##		Innere			Vienna	3.5	NA	NA	1
##		Innere			Vienna	3.0	3.5	66	1
##		Innere			Vienna	3.5	4.5	557	1
##		Innere			Vienna	4.0	4.0	1516	0
##		Innere			Vienna	3.0	3.5	515	0
##		Innere			Vienna	3.0	4.5	146	1
##		Innere			Vienna	5.0	5.0	945	1
##		Innere			Vienna	3.5	4.0	48	1
##	75	Innere			Vienna	4.0	4.0	16	1
##		Innere			Vienna	3.5	NA	NA	1
##		Innere		209	Vienna	4.0	NA	NA	1
##	78	Innere			Vienna	4.0	4.0	607	0
##	79	Innere		138	Vienna	4.0	4.0	273	0
##	80	Innere	Stadt		Vienna	3.0	4.0	171	1
##	81	Innere	Stadt	199	Vienna	4.5	4.5	3171	0
##	82	Innere	Stadt	203	Vienna	5.0	4.5	917	0
##	83	Innere	Stadt	116	Vienna	3.0	3.0	4	1
##	84	Innere	Stadt	107	Vienna	3.5	NA	NA	1
##	85	Innere	Stadt	127	Vienna	3.5	NA	NA	1
##	86	Innere	Stadt	104	Vienna	3.5	NA	NA	1
##	87	${\tt Innere}$	Stadt	168	Vienna	3.5	3.5	4	1
##	88	Innere	Stadt	544	Vienna	5.0	4.5	1178	0
##	89	Innere	Stadt	252	Vienna	5.0	4.5	1050	0
##	90	Innere	Stadt	323	Vienna	5.0	4.5	1168	0
##	91	Innere	Stadt	158	Vienna	3.0	4.0	232	1
##	92	Innere	Stadt	156	Vienna	3.5	NA	NA	1
##	93	Innere	Stadt	218	Vienna	4.0	5.0	1112	1
##	94	Innere	Stadt	218	Vienna	4.0	4.5	475	0
##	95	Innere	Stadt	135	Vienna	3.0	3.5	162	0
##	96	Innere	Stadt	219	Vienna	2.0	NA	NA	1
##	97	Innere	Stadt	179	Vienna	4.0	4.5	423	1
##	98	Innere	Stadt	511	Vienna	3.5	NA	NA	1
##	99	Innere	Stadt	157	Vienna	4.0	4.5	1380	0
##	100	Innere	Stadt	146	Vienna	4.0	4.5	770	1
##	101	Innere	Stadt	200	Vienna	5.0	4.0	1850	0
	102	Innere	Stadt	157	Vienna	4.0	4.0	392	1
##	103	Innere	Stadt		Vienna	4.0	NA	NA	1
	104	Innere			Vienna	3.0	3.5	234	1
	105	Innere	Stadt		Vienna	3.5	NA	NA	1
	106	Innere			Vienna	4.0	4.0	840	0
	107	Innere			Vienna	3.0	NA	NA	1
	108	Innere			Vienna	4.0	4.0	388	1
	109	Innere			Vienna	4.0	4.5	212	1
	110	Innere			Vienna	5.0	4.5	2985	0
	111	Innere			Vienna	4.0	4.5	282	0
	112	Innere			Vienna	4.0	4.5	1274	1
	113	Innere			Vienna	3.0	4.0	167	1
	114	Innere			Vienna	3.5	NA	NA	1
	115	Innere			Vienna	5.0	4.5	1330	0
	116	Innere			Vienna	5.0	5.0	1207	0
	117	Innere			Vienna	4.0	4.0	1592	1
	118	Innere			Vienna	5.0	4.0	468	0
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##	119	Innere Stadt	371 Vienna	5.0	4.5	1319	0
	120	Innere Stadt	156 Vienna	4.0	4.5	272	1
	121	Innere Stadt	220 Vienna	3.5	NA	NA	1
	122	Innere Stadt	169 Vienna	4.0	4.5	561	1
	123	Innere Stadt	103 Vienna	3.0	NA	NA NA	1
	124	Innere Stadt	266 Vienna	5.0	NA	NA	1
	125	Innere Stadt	131 Vienna	3.0	4.0	338	1
	126	Innere Stadt	168 Vienna	4.0	4.5	154	1
	127	Innere Stadt	101 Vienna	3.0	NA	NA	1
	128	Innere Stadt	364 Vienna	3.5	NA	NA	1
	129	Innere Stadt	242 Vienna	4.0	4.5	2165	0
	130	Innere Stadt	223 Vienna	4.0	3.5	276	1
	131	Innere Stadt	149 Vienna	4.0	4.5	930	1
##	132	Innere Stadt	232 Vienna	3.5	NA	NA	1
##	133	Innere Stadt	114 Vienna	4.0	4.0	836	0
##	134	Innere Stadt	253 Vienna	3.5	NA	NA	1
##	135	Innere Stadt	163 Vienna	4.0	4.5	203	1
##	136	Innere Stadt	116 Vienna	3.0	4.5	774	1
##	137	Innere Stadt	139 Vienna	4.0	3.5	54	1
##	138	Innere Stadt	91 Vienna	3.5	NA	NA	1
##	139	Josefstadt	79 Vienna	3.0	3.5	127	1
##	140	Josefstadt	66 Vienna	4.0	3.5	85	1
##	141	Josefstadt	100 Vienna	3.0	4.0	17	1
##	142	Josefstadt	75 Vienna	2.5	3.5	33	1
##	143	Josefstadt	73 Vienna	2.0	3.0	87	1
##	144	Josefstadt	127 Vienna	5.0	4.0	876	1
##	145	Josefstadt	110 Vienna	3.0	4.0	419	0
##	146	Josefstadt	88 Vienna	3.0	4.0	509	1
##	147	Josefstadt	59 Vienna	3.0	4.0	88	0
##	148	Josefstadt	355 Vienna	4.0	NA	NA	1
##	149	Josefstadt	59 Vienna	3.0	4.0	967	1
##	150	Josefstadt	119 Vienna	4.0	4.0	1358	0
	151	Josefstadt	152 Vienna	4.0	4.0	1461	0
	152	Josefstadt	102 Vienna	4.0	4.0	346	0
	153	Josefstadt	363 Vienna	3.5	NA	NA	1
	154	Josefstadt	54 Vienna	3.0	3.0	85	1
	155	Josefstadt	101 Vienna	3.0	4.0	44	1
	156	Josefstadt	75 Vienna	2.0	4.5	304	1
	157	Josefstadt	73 Vienna	2.0	4.0	103	1
	158	Josefstadt	94 Vienna	3.0	4.0	452	1
	159	Josefstadt	64 Vienna	4.0	4.0	251	1
	160	Josefstadt	81 Vienna	3.5	3.5	260	0
	161	Josefstadt	162 Vienna	3.0	NA	NA	1
	162	Josefstadt	115 Vienna	4.0	4.5	2150	0
	163	Josefstadt	101 Vienna	4.0	4.5	90	1
	164	Josefstadt	68 Vienna	3.0	3.5	182	1
	165	Kaerntner Strasse	354 Vienna	5.0	4.5	1504	0
	166	Kaerntner Strasse	153 Vienna	4.0	4.0	700	1
	167	Kaerntner Strasse	202 Vienna	5.0	4.0	615	1
	168	Kaerntner Strasse	169 Vienna	4.0	4.0	760	1
	169	Kaerntner Strasse	182 Vienna	4.0	4.5	327	0
	170	Kaerntner Strasse	193 Vienna	3.0	A.S NA	NA	1
	171	Kaerntner Strasse	138 Vienna	4.0	4.5	408	1
	172	Kaerntner Strasse	527 Vienna			1748	1
##	112	vaernther priasse	ozi vienna	5.0	5.0	1140	T

##	173	Kaerntner Strasse	142 Vienna	4.0	4.0	837	0
	174	Kaerntner Strasse	98 Vienna	3.5	NA	NA	1
##	175	Landstrasse	110 Vienna	4.0	4.5	2718	0
##	176	Landstrasse	82 Vienna	3.5	4.0	25	1
	177	Landstrasse	91 Vienna	3.5	NA	NA	1
	178	Landstrasse	150 Vienna	3.5	NA	NA	1
	179	Landstrasse	83 Vienna	3.5	4.5	35	1
	180	Landstrasse	95 Vienna	4.5	NA	NA	1
	181	Landstrasse	131 Vienna	3.0	NA	NA	0
##	182	Landstrasse	162 Vienna	4.0	5.0	610	1
##	183	Landstrasse	177 Vienna	5.0	4.0	2015	0
	184	Landstrasse	122 Vienna	2.0	NA	NA	1
##	185	Landstrasse	79 Vienna	3.0	NA	NA	1
##	186	Landstrasse	82 Vienna	4.0	4.0	395	0
##	187	Landstrasse	82 Vienna	4.0	4.0	717	1
##	188	Landstrasse	66 Vienna	3.0	3.5	203	0
##	189	Landstrasse	169 Vienna	4.0	4.0	1208	0
##	190	Landstrasse	59 Vienna	3.0	3.5	189	1
##	191	Landstrasse	109 Vienna	4.0	4.0	666	0
##	192	Landstrasse	104 Vienna	3.0	3.0	72	1
##	193	Landstrasse	145 Vienna	3.5	4.5	730	0
##	194	Landstrasse	58 Vienna	3.5	NA	NA	1
##	195	Landstrasse	107 Vienna	4.0	NA	NA	1
##	196	Landstrasse	85 Vienna	3.0	3.5	183	1
##	197	Landstrasse	184 Vienna	4.0	4.0	5	1
##	198	Landstrasse	137 Vienna	4.5	4.0	1060	0
	199	Landstrasse	116 Vienna	4.5	4.5	1591	0
	200	Landstrasse	157 Vienna	2.0	3.5	52	0
	201	Landstrasse	110 Vienna	3.0	3.5	529	1
	202	Landstrasse	134 Vienna	4.0	4.5	343	1
	203	Landstrasse	79 Vienna	4.0	3.5	77	1
	204	Landstrasse	143 Vienna	3.0	NA	NA	1
	205	Landstrasse	132 Vienna	4.0	4.0	1403	0
	206	Landstrasse	68 Vienna	4.0	4.0	162	1
	207	Leopoldstadt	128 Vienna	4.0	4.0	1437	0
	208	Leopoldstadt	99 Vienna	3.0	4.5	491	0
	209	Leopoldstadt	149 Vienna	2.0	NA	NA 306	1
	210	Leopoldstadt	86 Vienna	4.0	3.5	326	0
	211	Leopoldstadt	155 Vienna	3.0	4.0	28	0
	<ul><li>212</li><li>213</li></ul>	Leopoldstadt	63 Vienna 157 Vienna	3.0	3.0	183 12	1 0
	214	Leopoldstadt Leopoldstadt	134 Vienna	2.0 3.5	3.5 4.5	70	1
	215	Leopoldstadt	141 Vienna	5.0	NA	NA	1
	216	Leopoldstadt	79 Vienna	3.0	4.0	290	0
	217	Leopoldstadt	138 Vienna	4.0	4.0	1023	0
	218	Leopoldstadt	113 Vienna	4.0	4.5	1516	1
	219	Leopoldstadt	171 Vienna	3.0	NA	NA	1
	220	Leopoldstadt	56 Vienna	2.0	4.0	1666	0
	221	Leopoldstadt	84 Vienna	3.0	4.0	1249	0
	222	Leopoldstadt	72 Vienna	2.0	4.5	302	0
	223	Leopoldstadt	587 Vienna	5.0	5.0	7	1
	224	Leopoldstadt	68 Vienna	3.0	4.0	129	1
	225	Leopoldstadt	102 Vienna	3.5	4.0	281	0
	226	Leopoldstadt	96 Vienna	3.0	3.5	7	1
		•					

##	227	Leopoldstadt	81	Vienna	1.0	3.5	141	0
	228	Leopoldstadt		Vienna	3.0	4.0	727	0
	229	Leopoldstadt		Vienna	3.0	4.0	407	1
	230	Leopoldstadt		Vienna	3.0	4.0	51	1
	231	Leopoldstadt		Vienna	4.0	NA	NA	1
	232	Leopoldstadt		Vienna	5.0	4.5	2098	0
	233	Leopoldstadt		Vienna	3.0	4.5	1686	0
	234	Leopoldstadt		Vienna	3.0	4.5	1449	1
##	235	Leopoldstadt	89	Vienna	3.0	4.0	1580	0
##	236	Leopoldstadt	61	Vienna	2.0	4.0	1027	0
##	237	Leopoldstadt	92	Vienna	3.5	NA	NA	1
##	238	Leopoldstadt	106	Vienna	4.0	4.0	739	1
##	239	Leopoldstadt	100	Vienna	4.0	4.0	584	1
##	240	Leopoldstadt	75	Vienna	3.0	4.0	827	0
##	241	Leopoldstadt	84	Vienna	3.0	4.0	92	1
##	242	Leopoldstadt	151	Vienna	4.0	4.5	1272	0
##	243	Leopoldstadt	87	Vienna	3.0	3.5	314	0
##	244	Leopoldstadt	117	Vienna	4.0	4.5	836	1
##	245	Leopoldstadt	120	Vienna	4.0	4.0	807	0
##	246	Leopoldstadt	132	Vienna	3.5	NA	NA	1
	247	Leopoldstadt	68	Vienna	2.5	4.0	85	0
##	248	Margareten	383	Vienna	3.0	4.0	382	1
##	249	Margareten	160	Vienna	4.0	NA	NA	1
##	250	Margareten	135	Vienna	2.0	NA	NA	1
##	251	Margareten	111	Vienna	4.5	4.5	659	0
	252	Margareten	174	Vienna	4.0	4.5	1650	0
	253	Margareten	63	Vienna	3.0	3.5	335	0
	254	Margareten		Vienna	3.0	NA	NA	1
	255	Margareten		Vienna	3.5	4.5	15	0
	256	Margareten		Vienna	3.5	NA	NA	1
	257	Margareten		Vienna	4.0	3.5	1708	0
	258	Margareten		Vienna	3.0	NA	NA	1
	259	Margareten		Vienna	3.0	4.0	909	0
	260	Margareten		Vienna	4.0	4.0	372	0
	261	Margareten		Vienna	3.0	4.0	161	1
	262	Margareten		Vienna	2.0	NA	NA NA	1
	263	Margareten		Vienna	3.5	NA NA	NA NA	1
	<ul><li>264</li><li>265</li></ul>	Mariahilf Mariahilf		Vienna Vienna	3.0 3.0	NA 4.0	383	1 1
	266	Mariahilf		Vienna	2.0	NA	NA	1
	267	Mariahilf		Vienna	4.0	4.0	682	0
	268	Mariahilf		Vienna	4.0	NA	NA	1
	269	Mariahilf		Vienna	2.0	4.0	618	0
	270	Mariahilf		Vienna	3.0	3.5	170	0
	271	Mariahilf		Vienna	4.0	4.0	410	1
	272	Mariahilf		Vienna	3.5	NA	NA	1
	273	Mariahilf		Vienna	3.0	4.0	2102	0
	274	Mariahilf		Vienna	4.0	5.0	1495	1
	275	Mariahilf	99	Vienna	4.0	4.0	1228	1
	276	Mariahilf		Vienna	4.0	4.0	151	1
	277	Mariahilf		Vienna	4.0	4.5	716	0
	278	Mariahilf	100	Vienna	3.5	4.5	1414	0
##	279	Mariahilf	89	Vienna	3.0	4.0	67	1
##	280	Mariahilf	82	Vienna	3.0	3.5	78	0

##	281	Mariahilf	82	Vienna	4.0	4.0	1150	0
##	282	Mariahilf	88	Vienna	3.0	NA	NA	1
##	283	Mariahilf	150	Vienna	3.0	NA	NA	1
##	284	Mariahilf	134	Vienna	2.0	NA	NA	1
##	285	Mariahilf	87	Vienna	4.0	4.0	290	0
##	286	Mariahilf	100	Vienna	4.0	3.5	372	0
##	287	Mariahilf	84	Vienna	4.0	4.0	561	0
##	288	Mariahilf	52	Vienna	2.0	4.0	112	1
##	289	Neubau	98	Vienna	4.0	4.0	650	1
##	290	Neubau		Vienna	5.0	5.0	1523	0
##	291	Neubau		Vienna	3.0	4.0	1171	0
##	292	Neubau		Vienna	3.0	4.0	98	1
##	293	Neubau		Vienna	3.5	NA	NA	1
##	294	Neubau		Vienna	3.5	NA	NA	1
##	295	Neubau		Vienna	3.0	3.5	265	0
##	296	Neubau		Vienna	3.0	4.0	36	1
##	297	Neubau		Vienna	3.0	NA	NA	1
##	298	Neubau		Vienna	4.0	4.5	2436	0
	299	Neubau		Vienna	4.0	4.5	2431	0
	300	Neubau		Vienna	2.0	3.5	308	0
	301	Neubau		Vienna	3.0	4.0	364	1
	302	Neubau		Vienna	4.0	4.0	612	0
	303	Neubau		Vienna	3.0	4.0	143	1
	304	Neubau		Vienna	4.0	4.0	978	0
	305	Neubau		Vienna	4.0	4.0	816	0
	306	Neubau		Vienna	4.0	NA	NA	1
	307	Neubau		Vienna	3.5	NA 4	NA	1
	308	Neubau		Vienna	4.0	4.0	582	0
	309	Neubau		Vienna	3.0	4.5 NA	412 NA	1 1
	310 311	Ottakring Ottakring		Vienna Vienna	2.0 2.5	NA NA	NA NA	1
	312	Ottakring		Vienna	3.0	3.5	193	0
	313	Ottakring		Vienna	2.0	NA	NA	1
	314	Ottakring		Vienna	4.0	4.0	265	0
		Rudolfsheim-Funfhaus		Vienna	2.0	4.0	42	1
		Rudolfsheim-Funfhaus		Vienna	4.0	NA	NA	1
		Rudolfsheim-Funfhaus		Vienna	2.0	3.5	549	1
		Rudolfsheim-Funfhaus		Vienna	4.0	3.5	1020	0
		Rudolfsheim-Funfhaus		Vienna	3.5	NA	NA	1
##		Rudolfsheim-Funfhaus		Vienna	3.0	4.5	1452	0
##		Rudolfsheim-Funfhaus		Vienna	3.0	4.0	464	1
##		Rudolfsheim-Funfhaus		Vienna	2.0	NA	NA	1
##	323	Rudolfsheim-Funfhaus	81	Vienna	3.0	4.5	635	1
##	324	Rudolfsheim-Funfhaus	133	Vienna	2.0	NA	NA	0
##	325	Rudolfsheim-Funfhaus	66	Vienna	4.0	3.5	388	1
##	326	Rudolfsheim-Funfhaus	77	Vienna	3.0	4.0	241	0
##	327	Rudolfsheim-Funfhaus	121	Vienna	3.0	NA	NA	1
##	328	Rudolfsheim-Funfhaus	69	Vienna	4.0	3.5	399	0
##	329	Rudolfsheim-Funfhaus	83	Vienna	3.0	4.0	260	0
##	330	Rudolfsheim-Funfhaus	53	Vienna	2.0	4.5	604	1
##	331	Rudolfsheim-Funfhaus	133	Vienna	3.5	NA	NA	1
##	332	Rudolfsheim-Funfhaus	77	Vienna	4.0	3.0	212	0
##	333	Rudolfsheim-Funfhaus	48	Vienna	2.0	4.5	945	1
##	334	Rudolfsheim-Funfhaus	142	Vienna	4.5	4.0	831	0

##	335	Rudolfsheim-Funfhaus	121	Vienna	4.0	4.0	7	0
##	336	Schonbrunn	68	Vienna	3.0	4.0	116	1
##	337	Schonbrunn	63	Vienna	3.0	3.5	199	0
##	338	Schonbrunn	101	Vienna	3.0	4.5	187	0
##	339	Schonbrunn	75	Vienna	4.0	3.5	309	0
##	340	Schonbrunn	156	Vienna	4.0	4.0	1122	0
##	341	Schonbrunn	56	Vienna	3.0	4.0	177	0
##	342	Schonbrunn	82	Vienna	3.5	4.5	1245	0
##	343	Schonbrunn	82	Vienna	4.0	4.0	1148	0
##	344	Schonbrunn	106	Vienna	3.0	3.0	69	1
##	345	Schonbrunn	85	Vienna	3.0	3.0	114	1
##	346	Schonbrunn	83	Vienna	3.5	NA	NA	1
##	347	Schonbrunn	92	Vienna	4.0	4.0	753	0
##	348	Schonbrunn	169	Vienna	3.0	NA	NA	1
##	349	Schonbrunn	77	Vienna	3.0	4.5	79	1
##	350	Schwechat	92	Vienna	3.0	4.0	196	0
##	351	Schwechat	166	Vienna	4.0	4.0	2400	0
##	352	Schwechat	137	Vienna	4.0	3.5	191	1
##	353	Schwechat	99	Vienna	3.0	3.5	191	0
##	354	Schwechat		Vienna	4.0	4.0	127	1
##	355	Schwechat		Vienna	3.0	3.5	247	0
##	356	Schwechat	91	Vienna	3.0	3.5	161	0
##	357	Vienna	105	Vienna	3.5	NA	NA	1
##	358	Vienna	130	Vienna	2.0	NA	NA	1
	359	Vienna	110	Vienna	3.0	4.5	29	1
	360	Vienna		Vienna	4.0	4.0	192	0
	361	Vienna		Vienna	4.0	4.0	12	1
	362	Vienna		Vienna	3.0	3.5	129	0
	363	Vienna		Vienna	5.0	5.0	2	1
	364	Vienna		Vienna	2.0	3.5	1051	0
	365	Vienna		Vienna	3.5	3.0	12	1
	366	Vienna		Vienna	4.0	3.5	386	0
	367	Vienna		Vienna	4.5	4.5	2454	0
	368	Vienna		Vienna	3.5	4.0	261	0
	369	Vienna		Vienna	3.0	3.5	53	1
	370	Vienna		Vienna	3.0	NA	NA 077	1
	371	Vienna		Vienna	4.0	4.0	277	0
	372	Vienna		Vienna	4.0	4.0	73	1
	373 374	Vienna		Vienna Vienna	4.0 4.0	3.5 3.5	320 121	0 0
	375	Vienna		Vienna		4.0	121	0
	376	Vienna Vienna		Vienna	3.0 2.0	3.5	36	0
	377	Vienna		Vienna	3.0	NA	NA	1
	378	Vienna		Vienna	3.0	NA NA	NA NA	1
	379	Vienna		Vienna	3.0	3.5	21	1
	380	Vienna		Vienna	3.0	4.5	204	0
	381	Vienna		Vienna	3.5	3.5	88	1
	382	Vienna		Vienna	3.0	NA	NA	1
	383	Vienna		Vienna	3.0	4.0	20	1
	384	Vienna		Vienna	3.0	4.0	811	0
	385	Vienna		Vienna	3.0	4.0	61	1
	386	Vienna		Vienna	4.0	3.5	87	1
	387	Vienna		Vienna	4.0	4.0	493	0
	388	Vienna		Vienna	4.0	4.0	401	1

##	389		V	ienna	80	Vienna	2.0	3.5		187	1
##	390		V	ienna	87	Vienna	3.0	4.0		30	1
##	391		V	ienna	90	Vienna	3.0	3.0		78	1
##	392		V	ienna	100	Vienna	3.5	4.0		282	1
##	393		V	ienna		Vienna		NA		NA	1
##	394		V	ienna		Vienna		3.5		35	1
##	395		V	ienna	133	Vienna	2.0	NA		NA	1
##	396		V	ienna	134	Vienna	3.5	NA		NA	1
	397			ienna		Vienna	3.0	NA		NA	1
	398			ienna		Vienna		NA		NA	1
	399			ienna		Vienna		5.0		12	1
	400		Voese			Vienna		3.0		73	0
	401		Voese			Vienna		3.5		545	0
	402			hring		Vienna		4.5		982	0
	403			hring		Vienna		2.5		26	1
	404			hring		Vienna		4.0		142	1
	405			hring		Vienna		3.5		553	0
	406			hring		Vienna		NA		NA	1
	407			ieden		Vienna	3.5	4.5		116	0
	408			ieden		Vienna	3.0	4.0		89	0
	409			ieden		Vienna	4.0	4.0		436	0
	410			ieden		Vienna	3.5	NA		NA	1
	411			ieden		Vienna	3.0	4.0		688	0
	412			ieden		Vienna	4.0	4.5		1840	1
	413			ieden		Vienna	2.5	3.5		69	1
	414			ieden		Vienna	4.0	4.0		1121	0
	415			ieden		Vienna		4.5		229	0
	416			ieden		Vienna		4.5		1583	0
	417			ieden		Vienna		4.5		615	0
	418			ieden		Vienna		3.5		383	1
	419			ieden		Vienna	3.0	4.0		263	0
	420			ieden		Vienna	3.5	NA 4 O		NA 140	1
	421 422			ieden		Vienna		4.0		149	1
	423			ieden		Vienna		4.0		1003	1 1
	424			ieden ieden		Vienna Vienna	3.0 3.0	3.0 3.0		293 14	1
	425			ieden		Vienna	5.0	4.0		740	0
	426			ieden		Vienna		4.5		1006	1
	427					Vienna		3.0		135	0
	428			ieden		Vienna		NA		NA	1
##	120	hotel_id						weekend h	olidav		-
##	1	21894		15-50%				0	0	2.7	
##		21897		1-15%				0	0	1.7	
##		21901	1	15-50%				0	0	1.4	
##		21902	1	15-50%				0	0	1.7	
##		21903	1	15-50%				0	0	1.2	
##		21904	1			r 2017		0	0	0.9	
##		21906	0			r 2017		0	0	0.9	
##		21907	0			r 2017	11	0	0	1.0	
##		21908	1			r 2017	11	0	0	0.7	
	10	21910	1	15-50%				0	0	1.5	
	11	21912	1			r 2017		0	0	1.1	
	12	21913	0			r 2017		0	0	0.8	
##	13	21914	1	15-50%			11	0	0	1.0	

##	14	21915	1	15-50%	${\tt offer}$	2017	11	0	0	1.2
##	15	21916	0	0% no	offer	2017	11	0	0	0.7
##	16	21917	1	1-15%	offer	2017	11	0	0	1.7
##	17	21918	1	15-50%			11	0	0	0.9
##	18	21919	1	15-50%	offer	2017	11	0	0	0.8
##	19	21920	0	0% no	${\tt offer}$	2017	11	0	0	0.9
##	20	21921	0	0% no	${\tt offer}$	2017	11	0	0	3.4
##	21	21922	0	0% no	${\tt offer}$	2017	11	0	0	3.4
##	22	21924	0	0% no	${\tt offer}$	2017	11	0	0	4.2
##	23	21925	1	50%-75%	offer	2017	11	0	0	3.9
##	24	21926	1	15-50%	offer	2017	11	0	0	3.6
##	25	21927	0	0% no	${\tt offer}$	2017	11	0	0	3.8
##	26	21928	0	0% no	${\tt offer}$	2017	11	0	0	3.5
##	27	21930	0	0% no	${\tt offer}$	2017	11	0	0	2.9
##	28	21933	0	0% no	offer	2017	11	0	0	3.4
##	29	21934	1	15-50%	offer	2017	11	0	0	2.3
##	30	21935	1	50%-75%	offer	2017	11	0	0	2.0
##	31	21936	1	15-50%	offer	2017	11	0	0	2.4
##	32	21937	1	15-50%	offer	2017	11	0	0	2.8
##	33	21938	1	15-50%	offer	2017	11	0	0	2.9
##	34	21939	0	0% no	offer	2017	11	0	0	2.5
##	35	21940	0	0% no	offer	2017	11	0	0	1.7
##	36	21941	1	15-50%	offer	2017	11	0	0	1.7
##	37	21943	1	15-50%	offer	2017	11	0	0	2.1
##	38	21945	1	15-50%	offer	2017	11	0	0	2.5
##	39	21946	0	0% no	offer	2017	11	0	0	1.9
##	40	21947	1	15-50%	offer	2017	11	0	0	2.4
##	41	21948	0	0% no	offer	2017	11	0	0	2.0
##	42	21949	0	0% no	offer	2017	11	0	0	2.7
##	43	21950	1	1-15%	offer	2017	11	0	0	2.3
##	44	21951	1	15-50%	offer	2017	11	0	0	2.5
##	45	21956	0	0% no	${\tt offer}$	2017	11	0	0	1.8
##	46	21958	0	0% no	offer	2017	11	0	0	2.0
##	47	21959	1	1-15%	offer	2017	11	0	0	1.7
##	48	21960	1	1-15%	offer	2017	11	0	0	2.7
##	49	21962	1	15-50%	${\tt offer}$	2017	11	0	0	1.9
##	50	21963	1	15-50%	${\tt offer}$	2017	11	0	0	2.3
##	51	21964	1	15-50%	offer	2017	11	0	0	13.0
##	52	21965	1	15-50%	${\tt offer}$	2017	11	0	0	0.2
##	53	21966	1	1-15%	${\tt offer}$	2017	11	0	0	0.1
##	54	21967	1	50%-75%	${\tt offer}$	2017	11	0	0	0.1
##	55	21968	1	1-15%	offer	2017	11	0	0	0.3
##	56	21969	1	15-50%	offer	2017	11	0	0	0.3
##	57	21970	1	15-50%	offer	2017	11	0	0	0.3
##	58	21971	1	15-50%	offer	2017	11	0	0	0.5
##	59	21972	1	1-15%	offer	2017	11	0	0	0.3
##	60	21973	1	15-50%	offer	2017	11	0	0	0.3
##	61	21975	1	15-50%	offer	2017	11	0	0	0.1
##	62	21976	1	15-50%	offer	2017	11	0	0	0.3
##	63	21977	1	15-50%			11	0	0	0.2
##	64	21979	0		offer		11	0	0	0.4
##	65	21980	0		offer		11	0	0	0.1
##	66	21981	0	0% no	offer	2017	11	0	0	0.7
##	67	21983	0	0% no	offer	2017	11	0	0	0.5

##	68	21984	0	0% no	offer	2017	11	0	0	0.5
##	69	21985	1	15-50%	offer	2017	11	0	0	0.3
##	70	21986	1	1-15%	offer	2017	11	0	0	0.2
##	71	21987	1	1-15%	offer	2017	11	0	0	0.3
##	72	21988	1	1-15%	offer	2017	11	0	0	0.4
##	73	21989	1	15-50%	${\tt offer}$	2017	11	0	0	0.3
##	74	21990	1	15-50%	offer	2017	11	0	0	0.7
##	75	21991	1	15-50%	offer	2017	11	0	0	0.2
##	76	21992	0	0% no	offer	2017	11	0	0	0.2
##	77	21993	0	0% no	offer	2017	11	0	0	0.2
##	78	21995	1	15-50%	offer	2017	11	0	0	0.2
##	79	21996	1	15-50%	offer	2017	11	0	0	0.3
##	80	21997	1	1-15%	offer	2017	11	0	0	0.4
##	81	21998	1	50%-75%	offer	2017	11	0	0	0.3
##	82	21999	1	15-50%	offer	2017	11	0	0	0.3
##	83	22001	0	0% no	offer	2017	11	0	0	0.2
##	84	22002	0	0% no	offer	2017	11	0	0	0.2
##	85	22003	0	0% no	offer	2017	11	0	0	0.2
##	86	22004	0	0% no	offer	2017	11	0	0	0.2
##	87	22005	1	15-50%	offer	2017	11	0	0	0.2
##	88	22006	0	0% no	offer	2017	11	0	0	0.5
##	89	22007	1	1-15%	offer	2017	11	0	0	0.5
##	90	22008	1	15-50%	offer	2017	11	0	0	0.5
##	91	22009	0	0% no	offer	2017	11	0	0	0.3
##	92	22010	1	15-50%	offer	2017	11	0	0	0.2
##	93	22011	1	50%-75%	offer	2017	11	0	0	0.2
##	94	22012	1	15-50%	offer	2017	11	0	0	0.1
##	95	22013	1	15-50%	offer	2017	11	0	0	0.3
##	96	22014	1	15-50%	offer	2017	11	0	0	0.6
##	97	22016	0	0% no	offer	2017	11	0	0	0.5
##	98	22017	1	1-15%	offer	2017	11	0	0	0.5
##	99	22018	1	1-15%	offer	2017	11	0	0	0.7
##	100	22019	0	0% no	offer	2017	11	0	0	0.3
##	101	22020	1	15-50%	offer	2017	11	0	0	0.4
##	102	22021	0	0% no	offer	2017	11	0	0	0.1
##	103	22022	0	0% no	offer	2017	11	0	0	0.3
##	104	22023	1	15-50%	offer	2017	11	0	0	0.3
##	105	22025	0	0% no	offer	2017	11	0	0	0.2
##	106	22026	1	15-50%	offer	2017	11	0	0	0.8
##	107	22027	0	0% no	offer	2017	11	0	0	0.7
##	108	22028	0	0% no	offer	2017	11	0	0	0.4
##	109	22029	1	15-50%	offer	2017	11	0	0	0.2
##	110	22030	1	15-50%	offer	2017	11	0	0	0.5
##	111	22031	1	15-50%	offer	2017	11	0	0	0.1
##	112	22032	1	15-50%	offer	2017	11	0	0	0.4
##	113	22033	1	15-50%	offer	2017	11	0	0	0.4
##	114	22034	0	0% no	offer	2017	11	0	0	0.3
##	115	22035	1	15-50%	offer	2017	11	0	0	0.6
	116	22036	1	15-50%			11	0	0	0.6
	117	22037	1	15-50%			11	0	0	0.6
##	118	22038	1	15-50%			11	0	0	0.5
	119	22039	1		offer		11	0	0	0.5
	120	22040	0		offer		11	0	0	0.1
	121	22041	0		offer		11	0	0	0.3

##	122	22042	0	0% no	offer	2017	11	0	0	0.3
##	123	22043	0	0% no	offer	2017	11	0	0	0.3
##	124	22044	0	0% no	${\tt offer}$	2017	11	0	0	0.3
##	125	22045	1	15-50%	offer	2017	11	0	0	0.1
##	126	22046	0	0% no	${\tt offer}$	2017	11	0	0	0.2
##	127	22047	0	0% no	offer	2017	11	0	0	0.2
##	128	22049	0	0% no	offer	2017	11	0	0	0.2
##	129	22050	1	1-15%	offer	2017	11	0	0	0.0
##	130	22051	0	0% no	offer	2017	11	0	0	0.5
##	131	22052	1	15-50%	offer	2017	11	0	0	0.3
##	132	22053	0	0% no	offer	2017	11	0	0	0.2
##	133	22054	1	15-50%	offer	2017	11	0	0	0.5
##	134	22055	0	0% no	offer	2017	11	0	0	0.1
##	135	22057	1	15-50%	offer	2017	11	0	0	0.3
##	136	22059	1	15-50%	offer	2017	11	0	0	0.4
##	137	22061	1	1-15%	offer	2017	11	0	0	0.2
##	138	22063	0		offer		11	0	0	0.2
##	139	22064	1	1-15%	offer	2017	11	0	0	1.4
##	140	22065	1	15-50%	offer	2017	11	0	0	1.1
##	141	22066	1	1-15%	offer	2017	11	0	0	1.1
##	142	22067	1		offer		11	0	0	1.3
##	143	22068	0	0% no	offer	2017	11	0	0	1.2
##	144	22069	1		offer		11	0	0	0.8
##	145	22071	1	15-50%			11	0	0	0.9
##	146	22072	1	15-50%			11	0	0	0.9
##	147	22073	1	15-50%			11	0	0	1.2
##	148	22074	0		offer		11	0	0	1.6
	149	22075	1	50%-75%			11	0	0	1.6
	150	22076	1		offer		11	0	0	0.9
##	151	22077	1	1-15%	offer	2017	11	0	0	0.9
##	152	22078	1	1-15%	offer	2017	11	0	0	1.0
##	153	22079	1	1-15%	offer	2017	11	0	0	1.5
##	154	22080	1	15-50%	offer	2017	11	0	0	1.1
##	155	22081	1	15-50%	offer	2017	11	0	0	1.1
##	156	22082	1	15-50%	offer	2017	11	0	0	0.9
##	157	22083	1		offer		11	0	0	0.9
##	158	22084	1	15-50%	offer	2017	11	0	0	1.0
	159	22085	1	15-50%			11	0	0	1.1
##	160	22086	1	15-50%				0	0	1.0
##	161	22087	1	15-50%	offer	2017	11	0	0	1.6
##	162	22088	1	15-50%	offer	2017	11	0	0	0.9
##	163	22089	1	15-50%	offer	2017	11	0	0	1.2
##	164	22090	1	15-50%	offer	2017	11	0	0	0.9
	165	22092	1	1-15%			11	0	0	0.4
	166	22093	1	15-50%			11	0	0	0.2
	167	22094	1	15-50%			11	0	0	0.2
	168	22095	1		offer		11	0	0	0.3
	169	22097	1	1-15%			11	0	0	0.5
	170	22098	0	0% no			11	0	0	0.1
	171	22099	1		offer		11	0	0	0.2
	172	22100	1		offer		11	0	0	0.4
	173	22101	1	15-50%			11	0	0	0.1
	174	22102	0	0% no			11	0	0	0.4
	175	22104	1		offer		11	0	0	0.6
				,,						

##	176	22107	1	15-50%	offer	2017	11	0	0	1.9
##	177	22108	1	15-50%	${\tt offer}$	2017	11	0	0	0.9
##	178	22109	0	0% no	offer	2017	11	0	0	1.6
##	179	22110	1	15-50%	offer	2017	11	0	0	1.7
##	180	22111	1	15-50%	offer	2017	11	0	0	1.8
##	181	22112	1	15-50%	offer	2017	11	0	0	1.4
##	182	22113	1	15-50%	offer	2017	11	0	0	1.1
##	183	22114	1	50%-75%	offer	2017	11	0	0	0.5
##	184	22115	1	1-15%	offer	2017	11	0	0	1.5
##	185	22116	0		offer		11	0	0	1.6
##	186	22117	1	15-50%	offer	2017	11	0	0	1.4
##	187	22118	1		offer		11	0	0	1.7
##	188	22119	1	15-50%	offer	2017	11	0	0	1.8
##	189	22120	0		offer		11	0	0	0.8
##	190	22122	0		offer		11	0	0	0.8
##	191	22123	0		offer		11	0	0	1.5
##	192	22125	0		offer		11	0	0	0.7
##	193	22126	1	15-50%			11	0	0	0.9
	194	22127	0		offer		11	0	0	1.4
	195	22129	1	15-50%			11	0	0	1.3
	196	22130	1				11	0	0	0.8
	197	22131	1		offer		11	0	0	0.7
	198	22132	1	15-50%			11	0	0	1.0
	199	22134	1		offer		11	0	0	1.1
	200	22135	1	15-50%			11	0	0	1.1
	201	22136	0		offer		11	0	0	1.3
	202	22138	1	15-50%			11	0	0	0.6
	203	22140	0	0% no			11	0	0	1.3
	204	22141	0		offer		11	0	0	1.4
	205	22141	1	15-50%			11	0	0	1.0
	206	22143		50%-75%			11	0	0	1.3
	207	22144	1	15-50%			11	0	0	0.6
	208	22145	0		offer		11	0	0	1.5
	209	22148	1	15-50%			11	0	0	0.9
	210	22149		50%-75%			11	0	0	1.8
	211	22149	0		offer		11	0	0	1.9
	212	22152	1		offer		11	0	0	1.0
	213	22153	1	15-50%			11	0	0	0.6
	214	22155	1	15-50%			11	0	0	0.6
	215	22156	1		offer		11	0	0	1.7
	216	22157	1	15-50%			11	0	0	0.9
				0% no			11		0	
	217	22158	0	15-50%			11	0		0.5
	218	22159	1	15-50%				0	0 0	1.0
	219	22160	1				11			1.5
	220	22161	1		offer		11	0	0	1.5
	221	22162	1	15-50%			11	0	0	1.5
	222	22163	1	15-50%			11	0	0	1.1
	223	22164	1	15-50%			11	0	0	0.7
	224	22165	1	15-50%			11	0	0	0.9
	225	22166		50%-75%			11	0	0	1.5
	226	22167	1	15-50%			11	0	0	1.5
	227	22168	0	0% no			11	0	0	0.9
	228	22169	1	15-50%			11	0	0	1.6
##	229	22170	1	15-50%	offer	2017	11	0	0	1.1

##	230	22171	1	15-50%	offer	2017	11	0	0	0.8
	231	22173	0	0% no	offer	2017	11	0	0	0.6
##	232	22175	1	15-50%	offer	2017	11	0	0	0.4
##	233	22176	1	15-50%	offer	2017	11	0	0	0.8
##	234	22177	1	15-50%	offer	2017	11	0	0	1.0
##	235	22179	1	15-50%	offer	2017	11	0	0	1.6
##	236	22180	1	50%-75%	offer	2017	11	0	0	0.9
##	237	22181	0	0% no	${\tt offer}$	2017	11	0	0	0.8
##	238	22182	1	15-50%	offer	2017	11	0	0	0.8
##	239	22183	1	15-50%	${\tt offer}$	2017	11	0	0	0.8
##	240	22184	1	15-50%	offer	2017	11	0	0	0.7
##	241	22185	0	0% no	offer	2017	11	0	0	0.8
##	242	22187	0	0% no	offer	2017	11	0	0	0.5
##	243	22188	0	0% no	offer	2017	11	0	0	0.9
##	244	22189	0	0% no	offer	2017	11	0	0	0.5
##	245	22190	1	50%-75%	offer	2017	11	0	0	1.9
##	246	22191	0	0% no	offer	2017	11	0	0	0.8
##	247	22192	0	0% no	offer	2017	11	0	0	0.9
##	248	22193	0	0% no	offer	2017	11	0	0	1.9
##	249	22194	1	1-15%	offer	2017	11	0	0	1.6
##	250	22195	0	0% no	offer	2017	11	0	0	2.0
##	251	22196	1	15-50%	offer	2017	11	0	0	2.0
##	252	22198	0		offer		11	0	0	1.5
##	253	22199	1	15-50%	offer	2017	11	0	0	2.0
##	254	22200	0		offer		11	0	0	1.4
##	255	22201	0		offer		11	0	0	1.5
##	256	22202	0		offer		11	0	0	1.7
##	257	22203	1		offer		11	0	0	1.4
##	258	22204	0		offer		11	0	0	1.9
##	259	22205	1	15-50%			11	0	0	1.8
##	260	22206	1		offer		11	0	0	1.3
##	261	22208	1				11	0	0	1.9
##	262	22209	1	15-50%			11	0	0	1.9
##	263	22210	1		offer		11	0	0	1.6
	264	22211	1	15-50%			11	0	0	1.1
	265	22212	0		offer		11	0	0	1.3
##	266	22213	0		offer		11	0	0	0.9
##	267	22214	1		offer		11	0	0	0.7
	268	22215	1	15-50%			11	0	0	2.0
	269	22217	1	15-50%			11	0	0	1.0
	270	22218	0	0% no			11	0	0	1.4
	271	22219	1	15-50%			11	0	0	1.1
	272	22221	1	15-50%			11	0	0	1.8
	273	22222	1		offer		11	0	0	1.9
	274	22223	1	15-50%			11	0	0	0.8
	275	22224	1	15-50%			11	0	0	1.0
	276	22225	0	0% no			11	0	0	1.1
	277	22226	1	15-50%			11	0	0	1.4
	278	22227	1	15-50%			11	0	0	1.7
	279	22228	1	15-50%			11	0	0	1.0
	280	22229	1	15-50%			11	0	0	1.1
	281	22230	0	0% no			11	0	0	1.8
	282	22231	1	15-50%			11	0	0	1.8
	283	22233	0		offer		11	0	0	1.6
			-	.,			-	-	*	

##	284	22234	1	1-15%	offer	2017	11	0	0	1.6
##	285	22235	1	15-50%	offer	2017	11	0	0	1.9
##	286	22236	1	15-50%	offer	2017	11	0	0	1.6
##	287	22237	1	15-50%	offer	2017	11	0	0	1.6
##	288	22238	1	15-50%	offer	2017	11	0	0	0.9
##	289	22239	1	15-50%	offer	2017	11	0	0	0.8
##	290	22240	1	1-15%	offer	2017	11	0	0	0.7
##	291	22241	0	0% no	offer	2017	11	0	0	1.8
##	292	22243	1	15-50%	offer	2017	11	0	0	1.5
##	293	22244	1	1-15%	offer	2017	11	0	0	1.6
##	294	22245	1	1-15%	offer	2017	11	0	0	1.6
##	295	22246	1	1-15%	offer	2017	11	0	0	1.6
##	296	22247	1	15-50%	offer	2017	11	0	0	1.6
##	297	22248	0	0% no	offer	2017	11	0	0	0.8
##	298	22249	1	15-50%	offer	2017	11	0	0	0.9
##	299	22250	1	50%-75%	offer	2017	11	0	0	1.0
##	300	22251	1	50%-75%	offer	2017	11	0	0	1.7
##	301	22252	1	1-15%	offer	2017	11	0	0	1.0
	302	22253	1	15-50%			11	0	0	1.7
##	303	22254	1	1-15%	offer	2017	11	0	0	0.8
	304	22255	1	1-15%	offer	2017	11	0	0	1.7
	305	22256	0		offer		11	0	0	1.7
	306	22257	1	15-50%			11	0	0	1.7
	307	22258	0		offer		11	0	0	1.4
	308	22259	1	15-50%			11	0	0	1.4
	309	22260	1	15-50%			11	0	0	1.2
	310	22265	1	15-50%			11	0	0	2.0
##	311	22266	0		offer		11	0	0	2.3
##	312	22268	1	15-50%			11	0	0	3.1
	313	22269	1	15-50%			11	0	0	1.8
	314	22271	1	15-50%			11	0	0	4.1
##	315	22272	0		offer		11	0	0	2.9
	316	22273	1		offer		11	0	0	2.6
##	317	22274	0		offer		11	0	0	1.9
##	318	22275	1	15-50%			11	0	0	1.8
##	319	22276	1		offer		11	0	0	2.3
	320	22277	1	15-50%			11	0	0	1.9
	321	22279	1	15-50%			11	0	0	2.1
	322	22280	1	15-50%			11	0	0	2.3
	323	22281	1		offer		11	0	0	2.4
	324	22284	1	15-50%			11	0	0	2.5
	325	22285	1		offer		11	0	0	3.6
	326	22286	1		offer		11	0	0	2.8
	327	22287	0		offer		11	0	0	1.8
	328	22288	1		offer		11	0	0	2.1
	329	22289	1	15-50%			11	0	0	2.1
	330	22290	0		offer		11	0	0	1.9
	331	22291	1	15-50%			11	0	0	2.7
	332	22293	1	15-50%			11	0	0	1.8
	333	22294	0		offer		11	0	0	2.0
	334	22295	1				11	0	0	2.9
	335	22296	1		offer		11	0	0	1.7
	336	22299	1	15-50%			11	0	0	3.6
	337	22300	0		offer		11	0	0	2.0
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##	338	22301	0	0% no	offer	2017	11	0	0	2.1
##	339	22302	1	15-50%	offer	2017	11	0	0	2.6
##	340	22303	0	0% no	offer	2017	11	0	0	3.6
	341	22304	1	15-50%	offer	2017	11	0	0	3.7
	342	22306	1	15-50%	offer	2017	11	0	0	2.4
	343	22307	1	15-50%	offer	2017	11	0	0	2.6
	344	22309	0	0% no	offer	2017	11	0	0	4.1
##	345	22310	1	1-15%	offer	2017	11	0	0	3.1
##	346	22311	1	15-50%	offer	2017	11	0	0	2.6
##	347	22312	1	1-15%	offer	2017	11	0	0	2.9
##	348	22314	0	0% no	offer	2017	11	0	0	2.3
##	349	22315	1	15-50%	${\tt offer}$	2017	11	0	0	2.7
##	350	22317	0	0% no	offer	2017	11	0	0	11.0
##	351	22318	1	1-15%	offer	2017	11	0	0	11.0
##	352	22319	0	0% no	offer	2017	11	0	0	7.7
##	353	22320	0	0% no	offer	2017	11	0	0	7.7
##	354	22321	0	0% no	offer	2017	11	0	0	7.8
##	355	22322	0	0% no	offer	2017	11	0	0	6.3
##	356	22323	0	0% no	offer	2017	11	0	0	6.7
##	357	22324	1	1-15%	offer	2017	11	0	0	4.3
##	358	22325	0		offer		11	0	0	2.6
##	359	22326	1		offer		11	0	0	4.7
##	360	22328	0		offer		11	0	0	2.0
##	361	22330	0		offer		11	0	0	5.4
##	362	22331	0		offer		11	0	0	3.9
##	363	22332	1		offer		11	0	0	3.5
##	364	22333	0		offer		11	0	0	2.4
##	365	22334	1		offer		11	0	0	3.7
##	366	22335	1		offer		11	0	0	3.5
##	367	22336	1	50%-75%			11	0	0	2.3
##	368	22337	1		offer		11	0	0	2.3
##	369	22338	1		offer		11	0	0	1.7
##	370	22339	0		offer		11	0	0	2.6
##	371	22340	1	15-50%			11	0	0	3.1
##	372	22341	1	15-50%			11	0	0	4.8
##	373	22342	1	15-50%			11	0	0	3.7
##	374	22343	1	15-50%	offer	2017	11	0	0	3.9
	375	22344	1	15-50%			11	0	0	3.9
	376	22345	1	15-50%			11	0	0	4.7
	377	22346	1	1-15%	offer	2017	11	0	0	3.7
	378	22347	1	15-50%			11	0	0	6.9
	379	22348	0		offer		11	0	0	3.7
	380	22349	0		offer		11	0	0	5.3
	381	22350	1		offer		11	0	0	2.5
	382	22351	1	15-50%			11	0	0	2.7
	383	22353	0	0% no	offer	2017	11	0	0	6.6
	384	22354	0		offer		11	0	0	3.2
	385	22355	1		offer		11	0	0	3.3
	386	22356	1		offer		11	0	0	4.5
	387	22358	1	15-50%			11	0	0	2.7
	388	22359	1		offer		11	0	0	2.2
	389	22361	0		offer		11	0	0	5.2
	390	22362	0		offer		11	0	0	2.4
	391	22363	1		offer		11	0	0	4.6
			_	/0				-	-	

##	392	22364	1	15-50%	offer	2017	11	0	0	2.7
##	393	22365	1	15-50%	offer	2017	11	0	0	3.1
##	394	22366	0	0% no	${\tt offer}$	2017	11	0	0	2.5
##	395	22369	1	15-50%	${\tt offer}$	2017	11	0	0	2.6
##	396	22370	1	50%-75%	${\tt offer}$	2017	11	0	0	5.1
##	397	22371	1	15-50%	offer	2017	11	0	0	5.2
##	398	22372	1	75%+ 0	offer	2017	11	0	0	1.6
##	399	22373	1	50%-75%	offer	2017	11	0	0	1.4
##	400	22377	0	0% no	${\tt offer}$	2017	11	0	0	7.0
##	401	22378	0	0% no	offer	2017	11	0	0	7.1
##	402	22380	1	15-50%	offer	2017	11	0	0	1.9
##	403	22381	1	15-50%	offer	2017	11	0	0	1.8
##	404	22382	0	0% no	offer	2017	11	0	0	2.1
##	405	22384	1	1-15%	offer	2017	11	0	0	3.0
##	406	22385	1	15-50%	offer	2017	11	0	0	1.9
##	407	22386	0	0% no	offer	2017	11	0	0	1.6
##	408	22387	0	0% no	offer	2017	11	0	0	1.6
##	409	22388	0	0% no	${\tt offer}$	2017	11	0	0	1.0
##	410	22389	1	1-15%	offer	2017	11	0	0	0.9
##	411	22390	1	15-50%	${\tt offer}$	2017	11	0	0	1.3
##	412	22391	1	15-50%	${\tt offer}$	2017	11	0	0	0.8
##	413	22393	0	0% no	offer	2017	11	0	0	1.3
##	414	22394	0	0% no	offer	2017	11	0	0	1.2
##	415	22395	1	15-50%	offer	2017	11	0	0	1.2
##	416	22396	0	0% no	offer	2017	11	0	0	1.0
##	417	22397	1	1-15%	offer	2017	11	0	0	0.8
##	418	22398	1	15-50%	offer	2017	11	0	0	0.9
##	419	22399	0	0% no	offer	2017	11	0	0	0.8
##	420	22400	0	0% no	offer	2017	11	0	0	0.9
##	421	22401	1	1-15%	offer	2017	11	0	0	1.2
##	422	22402	1	1-15%	offer	2017	11	0	0	1.5
##	423	22403	1	1-15%	${\tt offer}$	2017	11	0	0	1.5
##	424	22404	1	50%-75%	offer	2017	11	0	0	1.5
##	425	22406	1	15-50%	offer	2017	11	0	0	0.8
##	426	22407	0	0% no	offer	2017	11	0	0	1.0
##	427	22408	1	15-50%	offer	2017	11	0	0	1.4
##	428	22409	1	1-15%	offer	2017	11	0	0	0.7
##		distance_al		accommo	odation	n_type	${\tt nnights}$	rating		
##	1		4.4		Apai	rtment	1	4.4		
##	2		3.8			${\tt Hotel}$	1	3.9		
##	3		2.5			${\tt Hotel}$	1	3.7		
##	4		2.5			${\tt Hotel}$	1	4.0		
##	5		2.8			${\tt Hotel}$	1	3.9		
##	6		3.0		Apaı	rtment	1	4.8		
##	7		2.4			Hotel	1	3.9		
##	8		2.7			Hotel	1	4.6		
##	9		2.7			Hotel	1	3.5		
##	10		2.7		Apaı	rtment	1	NA		
	11		2.7			Hotel	1	4.1		
	12		2.9			Hotel	1	4.0		
	13		2.3		_	rtment	1	4.5		
##			2.3		Apai	rtment	1	3.7		
##			2.6			Hotel	1	NA		
##	16		2.6			Hotel	1	4.1		

##	17	2.8 Hotel		3.7
##	18	2.8 Hotel		3.9
##	19	2.8 Hotel	1	4.0
##	20	0.6 Apartment	1	NA
##	21	0.6 Apartment	1	4.8
##	22	1.5 Hotel	1	3.9
##	23	1.9 Hotel	1	2.7
##	24	1.2 Hotel	1	4.3
##	25	1.2 Apartment	1	3.0
##	26	0.8 Bed and breakfast	1	3.5
##	27	0.6 Hotel	1	4.1
##	28	0.9 Hotel	1	3.7
##	29	4.9 Apartment	1	3.5
##	30	4.5 Hotel	1	3.5
##	31	5.0 Apartment	1	3.0
##	32	5.3 Apartment	1	3.2
##	33	5.2 Apartment	1	1.0
##	34	5.1 Apartment	1	NA
##	35	4.2 Hotel	1	4.4
##	36	4.1 Hotel	1	4.4
##	37	4.6 Hotel	1	4.4
##	38	5.1 Apartment	1	3.0
##	39	4.2 Hotel	1	4.5
##	40	5.0 Apartment	1	3.0
##	41	4.5 Hotel	1	2.0
##	42	5.1 Hostel	1	3.7
##	43	4.6 Apartment	1	3.0
##	44	4.8 Apartment	1	3.5
##	45	4.3 Hotel	1	3.4
##	46	4.4 Apartment	1	NA
##	47	4.2 Hotel	1	4.0
##	48	5.3 Apartment	1	3.5
##	49	4.3 Apartment	1	4.1
##	50	4.7 Guest House	1	4.3
##	51	13.0 Hotel	1	3.0
##	52	2.9 Hotel	1	4.4
##	53	2.9 Apartment	1	4.1
##	54	2.8 Hotel	1	4.5
##	55	2.6 Hotel		4.5
##	56	2.8 Hotel		4.8
##	57	2.6 Hotel		4.3
##	58	3.1 Hotel		4.1
##	59	3.0 Hotel		4.5
##	60	3.0 Hotel		4.3
##	61	2.7 Hotel		4.3
##	62	2.8 Hotel		4.5
##	63	2.6 Hotel		4.5
##	64	2.5 Apartment		3.7
##	65	2.9 Hotel		4.4
##	66	3.1 Pension		4.0
##	67	3.3 Apartment		NA
	68	2.6 Hotel		3.7
##	69	2.5 Hotel	1	4.5
	70	2.6 Hotel		4.0
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##		2.5	Hotel	1	3.9
##	72	2.9	Hotel	1	4.4
	73	3.1	Hotel	1	4.8
	74	3.4	Apartment	1	4.1
##	75	2.6	Apartment	1	4.3
##	76	2.9	Apartment	1	NA
##	77	2.9	Apartment	1	NA
##	78	2.9	Hotel	1	4.0
##	79	2.5	Hotel	1	4.3
##	80	2.6	Pension	1	4.0
##	81	2.9	Hotel	1	4.5
##	82	2.9	Hotel	1	4.4
##	83	2.7	Vacation home Condo	1	NA
##	84	2.7	Apartment	1	NA
##	85	2.7	Apartment	1	NA
##	86	2.7	Apartment	1	NA
##	87	2.6	Apartment	1	4.0
##	88	3.2	Hotel	1	4.8
	89	3.2	Hotel	1	4.6
##	90	3.2	Hotel	1	4.5
##	91	3.1	Hotel	1	4.3
##	92	2.7		1	4.0
##			Apartment		
	93	2.6	Hotel	1	4.6
##	94	2.7	Hotel	1	4.5
##	95	2.6	Hotel	1	3.9
##	96	2.6	Apartment	1	4.0
##	97	3.3	Hotel	1	4.4
##	98	3.3	Apartment	1	NA
##	99	3.5	Hotel	1	4.5
##	100	2.8	Hotel	1	4.5
##	101	2.9	Hotel	1	4.3
##	102	2.8	Hotel	1	4.1
##	103	2.6	Apartment	1	NA
##	104	2.5	Hotel	1	3.5
##	105	2.6	Apartment	1	NA
##	106	3.1	Hotel	1	4.0
##	107	3.0	Guest House	1	3.0
##	108	2.7	Hotel	1	4.1
##	109	2.8	Apart-hotel	1	4.5
##	110	3.3	Hotel	1	4.3
##	111	2.7	Hotel	1	4.4
##	112	2.6	Hotel	1	4.4
##	113	2.6	Guest House	1	3.7
##	114	2.6	Apartment	1	1.0
##	115	2.7	Hotel	1	4.5
##	116	2.5	Hotel	1	4.8
##	117	2.8		1	4.3
##			Hotel	1	
	118	3.1	Hotel		4.1
##	119	3.1	Hotel	1	4.6
##	120	2.7	Pension	1	4.4
##	121	2.5	Apartment	1	NA
##	122	2.5	Hotel	1	4.5
##	123	2.7	Apartment	1	NA
##	124	2.6	Apartment	1	4.5

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##	125	2.9	Pension	1	3.9
##	126	2.8	Apartment	1	4.6
##	127	2.6	Apartment	1	NA
##	128	3.0	Apartment	1	NA
##	129	2.8	Hotel	1	4.8
##	130	2.4	Hotel	1	3.5
##	131	2.7	Hotel	1	4.4
##	132	2.7	Apartment	1	NA
##	133	2.3	Hotel	1	4.0
##	134	2.8	Apartment	1	2.0
##	135	2.6	Apart-hotel	1	4.4
##	136	3.1	Pension	1	4.1
##	137	2.9	Hotel	1	3.5
##	138	2.7	Apartment	1	3.2
##	139	3.6	Hotel	1	3.5
##	140	3.2	Pension	1	3.7
##	141	3.2		1	3.0
			Apartment		
##	142	3.4	Pension	1	3.0
##	143	3.3	Pension	1	3.5
##	144	3.4	Hotel	1	4.1
##	145	3.4	Hotel	1	4.1
##	146	3.3	Hotel	1	4.4
##	147	3.5	Pension	1	3.7
##	148	3.8	Apartment	1	NA
##	149	3.7	Hotel	1	3.9
##	150	3.4	Hotel	1	4.0
##	151	3.4	Hotel	1	4.3
##	152	3.4	Hotel	1	4.0
##	153	3.5	Apartment	1	5.0
##	154	3.4	Hotel	1	3.2
##	155	3.3	Apartment	1	4.0
##	156	3.5	Hotel	1	4.0
##	157	3.5	Hotel	1	3.9
##	158	3.4	Hotel	1	4.1
##	159	3.3	Pension	1	3.5
##	160	3.3	Apart-hotel	1	3.7
##	161	4.0	Apartment	1	4.0
##	162	3.5	Hotel	1	4.5
##	163	3.8	Apartment	1	4.4
##	164	3.2	Hotel	1	3.7
##	165	3.2	Hotel	1	4.5
##	166	3.0	Hotel	1	4.1
##	167	3.0	Hotel	1	4.3
##	168	3.1	Hotel	1	4.1
##	169	3.3	Hotel	1	4.5
##	170	2.9	Apartment	1	NA
##	171	3.0	Pension	1	4.1
##	172	3.1	Hotel	1	4.8
##	173	2.8	Hotel	1	4.4
##	174	3.1	Apartment	1	NA
##	175	3.2	Hotel	1	4.3
##	176	3.2	Apartment	1	4.1
##	177	2.4	Apartment	1	2.5
##	178	3.0	Apartment	1	NA
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	170	0 0	A	
##	179	3.0	±	4.4
##	180	3.1	1	4.0
##	181	2.8	$\texttt{Apartment} \qquad \qquad 1 \qquad \qquad 3$	3.7
##	182	2.8	Bed and breakfast 1	4.8
##	183	3.0	Hotel 1	4.3
##	184	3.6	Apartment 1	4.0
##	185	3.7	<del>-</del>	2.0
##	186	3.1	1	4.0
##	187	3.3		4.1
##	188	3.4		3.9
##	189	2.7		4.1
##	190	2.7		3.7
##	191	3.8		4.1
##	192	2.6		3.4
##	193	2.5		4.3
##	194	3.6	-	2.0
##	195	3.4	Vacation home Condo 1	4.3
##	196	2.1	Hotel 1 3	3.5
##	197	2.2	Apartment 1	4.5
##	198	3.3	Hotel 1	4.1
##	199	3.3	Hotel 1 4	4.5
##	200	3.3	Apartment 1 3	3.7
##	201	3.3	<del>-</del>	3.7
##	202	3.0		4.3
##	203	3.3		3.7
##	204	3.3		4.5
##	205	3.2	±	
				4.1
##	206	3.5	1	4.0
##	207	2.3		4.1
##	208	1.6		4.5
##	209	1.9	$\texttt{Apartment} \qquad \qquad 1 \qquad \qquad 2$	2.2
##	210	1.0	Hotel 1	4.0
##	211	1.4	Apartment 1	4.1
##	212	1.9	Hotel 1 3	3.4
##	213	2.3	Apartment 1 3	3.7
##	214	2.2		4.0
##	215	1.4	Apartment 1	4.3
##	216	1.9	<u> </u>	3.7
##	217	2.3		4.0
##	218	1.8		4.5
##	219	1.3		3.5
			<u>*</u>	
##	220	1.4		3.5
##	221	1.4		3.9
##	222	2.0		4.0
##	223	2.2		1.0
##	224	2.1		4.0
##	225	1.4		3.9
##	226	1.4	Apartment 1 3	3.4
##	227	1.9	Hotel 1 3	3.7
##	228	1.7		4.1
##	229	1.7		4.0
##	230	2.2		3.9
	231	2.3	Apartment 1	NA
##	232	2.4	<u>-</u>	4.5
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	233	2.1	Hotel	1	4.5
	234	1.9	Hotel	1	4.5
##	235	1.2	Hotel	1	4.1
##	236	2.2	Hotel	1	4.0
##	237	2.3	Apartment	1	4.5
	238	2.0	Hotel	1	4.1
	239	2.0	Hotel	1	4.0
##	240	2.2	Hotel	1	4.1
##	241	2.2	Hotel	1	2.2
##	242	2.3	Hotel	1	4.6
##	243	1.9	Hotel	1	3.5
##	244	2.3	Hotel	1	4.4
##	245	1.9	Hotel	1	4.5
##	246	2.1	Apartment	1	NA
##	247	1.9	Hotel	1	3.9
##	248	4.7	Hotel	1	4.0
##	249	4.4	Apartment	1	4.3
##	250	4.8	Apartment	1	NA
##	251	4.8	Hotel	1	4.5
##	252	4.3	Hotel	1	4.3
##	253	4.7	Hotel	1	3.5
##	254	4.2	Apartment	1	4.3
##	255	4.3	Hotel	1	4.5
##	256	4.4	Apartment	1	NA
##	257	4.2	Hotel	1	3.9
##	258	4.7	Guest House	1	NA
##	259	4.5	Hotel	1	4.0
##	260	4.1	Hotel	1	4.1
##	261	4.6	Apartment	1	4.1
##	262	4.7	Apartment	1	3.2
##	263	4.3	Apartment	1	5.0
##	264	3.9	Apartment	1	4.6
##	265	4.1	Hotel	1	4.0
##	266	3.6	Hotel	1	3.7
##	267	3.4	Hotel	1	4.1
##	268	4.7	Apartment	1	4.1
##	269	3.8	Hotel	1	4.0
##	270	4.2	Hotel	1	3.9
##	271	3.9	Hotel	1	4.0
##	272	4.6	Apartment	1	4.5
	273	4.6	Hotel	1	4.0
	274	3.6	Hotel	1	4.8
##	275	3.8	Hotel	1	4.0
##	276	3.9	Pension	1	4.1
##	277	4.1	Hotel	1	4.4
##	278	4.4	Hotel	1	4.5
##	279	3.8	Pension	1	3.7
##	280	3.9	Hotel	1	3.9
##	281	4.5	Hotel	1	3.9
##	282	4.5	Apartment	1	NA
##	283	4.4	Apartment	1	NA
	284	4.4	Apartment	1	3.7
	285	4.7	Hotel	1	3.5
	286	4.3	Hotel	1	3.7
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	287	4.3			Hotel	1	4.3
##	288	3.7			Hotel	1	3.7
##	289	3.5			Hotel	1	3.7
##	290	3.4			Hotel	1	4.9
##	291	4.4			Hotel	1	4.1
##	292	4.1	Bed	and	breakfast	1	4.0
##	293	4.3			Apartment	1	4.6
##	294	4.3			Apartment	1	5.0
##	295	4.2			Hotel	1	3.5
##	296	4.1	Red	and	breakfast	1	4.4
##	297	3.6	Doa	unu	Hotel	1	3.7
##	298				Hotel	1	4.4
		3.6					
##	299	3.7			Hotel	1	4.6
##	300	4.2			Hotel	1	3.2
##	301	3.8			Hotel	1	4.3
##	302	4.4			Hotel	1	4.1
##	303	3.5			Hotel	1	3.9
##	304	4.3			Hotel	1	4.3
##	305	4.3			Hotel	1	4.0
##	306	4.2			Apartment	1	5.0
##	307	4.1			Apartment	1	NA
##	308	4.0			Hotel	1	4.0
##	309	3.9			Hotel	1	4.1
##	310	4.4			Apartment	1	3.2
	311	4.6			Apartment	1	4.3
	312	5.2			Hotel	1	3.5
	313	4.1				1	3.7
					Apartment		
	314	6.0			Hotel	1	4.0
	315	5.3			Hotel	1	4.0
	316	5.2			Apartment	1	NA
	317	4.6			Hostel	1	3.7
##	318	4.4			Hotel	1	3.9
##	319	4.9			Apartment	1	2.2
##	320	4.5			Hotel	1	4.5
##	321	4.8			Hotel	1	4.1
##	322	4.9			Apartment	1	3.9
##	323	4.9			Hotel	1	4.1
##	324	5.1			Apartment	1	3.7
	325	6.1			Hotel	1	3.7
	326	5.5			Hotel	1	4.0
##	327	4.4			Apartment	1	4.5
##	328	4.8			Hotel	1	3.7
##	329	4.8			Hotel	1	4.1
		4.6				1	
	330				Hostel		4.1
##	331	5.3			Apartment	1	4.0
##	332	4.5			Hotel	1	3.9
	333	4.7			Hostel	1	4.5
	334	5.5			Hotel	1	4.3
##	335	4.3			Hotel	1	3.9
##	336	6.2			Hotel	1	3.5
##	337	4.8			Hotel	1	3.7
##	338	4.9			Hotel	1	4.5
	339	5.4			Hotel	1	3.7
	340	6.2			Hotel	1	4.3

	0.4.4				
	341	6.3	Hotel	1	3.5
##	342	5.2	Hotel	1	4.5
##	343	5.4	Hotel	1	4.4
##	344	6.8	Hotel	1	3.7
##	345	5.9	Hotel	1	2.7
##	346	5.4	Hotel	1	4.5
##	347	5.6	Hotel	1	4.1
##	348	5.1	Apartment	1	4.3
##	349	5.4	Guest House	1	3.5
##	350	11.0	Hotel	1	4.3
##	351	11.0	Hotel	1	4.0
##	352	7.9	Hotel	1	3.7
##	353	7.9	Hotel	1	3.7
##	354	8.0	Hotel	1	3.5
##	355	6.9	Hotel	1	3.2
##	356	8.2	Hotel	1	3.5
##	357	6.7	Apartment	1	NA
##	358	5.4	Apartment	1	4.0
##	359	7.0	Pension	1	4.3
##	360	3.4	Hotel	1	4.0
##	361	8.1	Pension	1	4.1
##	362	6.4	Hotel	1	3.7
##	363	1.3	Apartment	1	4.6
##	364	3.7	Hotel	1	3.5
##	365	6.4	Hotel	1	4.1
##	366				
		6.2	Hotel	1	4.0
##	367	1.9	Hotel	1	4.3
##	368	1.1	Apart-hotel	1	4.4
##	369	1.8	Guest House	1	3.7
##	370	2.3	Apartment	1	NA
##	371	5.9	Hotel	1	4.0
##	372	7.3	Hotel	1	3.9
##	373	6.4	Hotel	1	3.7
##	374	6.6	Hotel	1	4.0
##	375	6.6	Hotel	1	3.9
##	376	7.4	Apartment	1	3.2
##	377	6.2	Apartment	1	3.0
##	378	9.6	Apartment	1	4.0
	379	5.0	Hotel	1	4.0
##	380	7.6	Hotel	1	4.0
##				1	
	381	5.2	Apartment		3.2
##	382	5.4	Apartment	1	3.0
##	383	9.4	Hotel	1	4.4
##	384	4.5	Hotel	1	4.3
##	385	4.6	Hotel	1	3.7
##	386	5.2	Hotel	1	4.0
##	387	3.7	Hotel	1	4.0
##	388	3.8	Hotel	1	4.1
##	389	7.6	Hostel	1	3.2
##	390	3.9	Hotel	1	4.0
##	391	7.4	Hotel	1	3.0
	392	4.2	Hotel	1	4.4
	393	4.6	Apartment	1	3.2
##	394	4.1	Pension	1	3.2
π#	00 <del>1</del>	4.1	rension	1	J. Z

```
## 395
                   5.3
                                                          3.7
                                   Apartment
## 396
                   7.7
                                   Apartment
                                                     1
                                                          3.2
## 397
                                   Apartment
                   7.8
                                                     1
                                                          4.0
## 398
                    1.8
                                                          4.4
                                   Apartment
                                                     1
## 399
                   2.2
                                   Apartment
                                                     1
                                                          4.9
## 400
                   9.7
                                       Hotel
                                                     1
                                                          3.5
## 401
                   9.9
                                       Hotel
                                                     1
                                                          3.7
## 402
                   2.7
                                       Hotel
                                                     1
                                                          4.4
## 403
                    3.2
                                   Apartment
                                                     1
                                                          3.5
## 404
                   3.0
                                                     1
                                                          4.4
                                       Hotel
## 405
                   3.2
                                       Hotel
                                                     1
                                                          4.0
## 406
                   3.1
                                                          4.0
                                   Apartment
                                                     1
## 407
                    4.0
                                                          4.5
                                       Hotel
                                                     1
## 408
                    4.0
                                       Hotel
                                                     1
                                                          4.3
## 409
                   3.6
                                       Hotel
                                                     1
                                                          4.1
## 410
                   3.6
                                       Hotel
                                                     1
                                                          4.5
## 411
                   3.9
                                       Hotel
                                                     1
                                                          4.3
## 412
                   3.5
                                       Hotel
                                                     1
                                                          4.8
## 413
                   4.0
                                 Guest House
                                                     1
                                                          3.5
                   3.9
## 414
                                                     1
                                                          4.5
                                       Hotel
## 415
                   3.7
                                       Hotel
                                                     1
                                                          4.4
## 416
                   3.8
                                       Hostel
                                                     1
                                                          3.4
## 417
                   3.5
                                                          4.5
                                       Hotel
                                                     1
## 418
                   3.7
                                       Hotel
                                                     1
                                                          3.5
## 419
                   3.6
                                       Hotel
                                                     1
                                                          3.9
                                   Apartment
## 420
                   3.6
                                                     1
                                                          5.0
                                                          4.0
## 421
                   3.7
                                       Hotel
                                                     1
## 422
                    3.9
                                       Hotel
                                                     1
                                                          4.1
## 423
                    4.0
                                                          3.4
                                       Hotel
                                                     1
## 424
                   3.8
                                                          5.0
                                   Apartment
                                                     1
## 425
                   3.6
                                       Hotel
                                                     1
                                                          4.3
## 426
                   3.7
                                       Hotel
                                                     1
                                                          4.4
## 427
                                                     1
                                                          3.2
                   4.1
                                       Hotel
## 428
                   3.5
                                                     1
                                                          4.0
                                   Apartment
```

b.

## dim(hotels\_data)

## [1] 428 24

c.

selected\_dataset <- hotels\_data[,c("country", "neighbourhood", "price", "stars", "accommodation\_type",
selected\_dataset</pre>

```
##
       country
                       neighbourhood price stars
                                                    accommodation_type rating
## 1
       Austria
                         17. Hernals
                                               4.0
                                                              Apartment
                                                                            4.4
                                         81
## 2
       Austria
                          17. Hernals
                                         81
                                               4.0
                                                                  Hotel
                                                                            3.9
## 3
                                         85
                                               4.0
                                                                            3.7
       Austria
                          Alsergrund
                                                                  Hotel
## 4
       Austria
                          Alsergrund
                                         83
                                               3.0
                                                                  Hotel
                                                                            4.0
                                                                            3.9
## 5
                          Alsergrund
                                         82
                                               4.0
       Austria
                                                                  Hotel
```

##	6	Austria	Alsergrund	229	5.0	Apartment	4.8
##	7	Austria	Alsergrund	103	4.0	Hotel	3.9
##	8	Austria	Alsergrund	150	4.0	Hotel	4.6
##	9	Austria	Alsergrund	80	2.0	Hotel	3.5
##	10	Austria	Alsergrund	153	3.0	Apartment	NA
##	11	Austria	Alsergrund	60	4.0	Hotel	4.1
##	12	Austria	Alsergrund	128	4.0	Hotel	4.0
##	13	Austria	Alsergrund	100	4.0	Apartment	4.5
##	14	Austria	Alsergrund	143	2.0	Apartment	3.7
##	15	Austria	Alsergrund	106	2.5	Hotel	NA
##	16	Austria	Alsergrund	85	4.0	Hotel	4.1
##	17	Austria	Alsergrund	77	3.0	Hotel	3.7
##	18	Austria	Alsergrund	78	3.0	Hotel	3.9
##	19	Austria	Alsergrund	78	3.0	Hotel	4.0
##	20	Austria	Donaustadt	260	3.5	Apartment	NA
##	21	Austria	Donaustadt	158	3.0	Apartment	4.8
##	22	Austria	Donaustadt	77	3.0	Hotel	3.9
##	23	Austria	Donaustadt	77	3.0	Hotel	2.7
##	24	Austria	Donaustadt	95	4.0	Hotel	4.3
##	25	Austria	Donaustadt	156	3.0	Apartment	3.0
##	26	Austria	Donaustadt	145	3.0	Bed and breakfast	3.5
##	27	Austria	Donaustadt	208	4.0	Hotel	4.1
##	28	Austria	Donaustadt	87	3.0	Hotel	3.7
##	29	Austria	Favoriten	131	2.0	Apartment	3.5
##	30	Austria	Favoriten	54	3.0	Hotel	3.5
##	31	Austria	Favoriten	139	2.0	Apartment	3.0
##	32	Austria	Favoriten	184	2.0	Apartment	3.2
##	33	Austria	Favoriten	127	3.0	Apartment	1.0
##	34	Austria	Favoriten	95	3.0	Apartment	NA
##	35	Austria	Favoriten	99	3.5	Hotel	4.4
##	36	Austria	Favoriten	75	3.5	Hotel	4.4
##	37	Austria	Favoriten	76	3.0	Hotel	4.4
##	38	Austria	Favoriten	130	2.0	Apartment	3.0
##	39	Austria	Favoriten	91	4.0	Hotel	4.5
##	40	Austria	Favoriten	135	2.0	Apartment	3.0
##	41	Austria	Favoriten	56	2.0	Hotel	2.0
##	42	Austria	Favoriten	27	2.0	Hostel	3.7
##	43	Austria	Favoriten	88	3.0	Apartment	3.0
##	44	Austria	Favoriten	133	2.0	Apartment	3.5
##	45	Austria	Favoriten	33	2.0	Hotel	3.4
##	46	Austria	Favoriten	116	3.5	Apartment	NA
##	47	Austria	Favoriten	71	4.0	Hotel	4.0
##	48	Austria	Favoriten	90	3.5	Apartment	3.5
##	49	Austria	Favoriten	84	4.0	Apartment	4.1
##	50	Austria	Favoriten	63	3.0	Guest House	4.3
##	51	Austria	Fischamend	59	3.0	Hotel	3.0
##	52	Austria	Graben	113	3.0	Hotel	4.4
##	53	Austria	Graben	218	4.5	Apartment	4.1
##	54	Austria	Graben	299	5.0	Hotel	4.5
##	55	Austria	Innere Stadt	156	3.0	Hotel	4.5
##	56	Austria	Innere Stadt	513	5.0	Hotel	4.8
##	57	Austria	Innere Stadt	133	4.0	Hotel	4.3
##	58	Austria	Innere Stadt	123	4.0	Hotel	4.1
##	59	Austria	Innere Stadt	219	4.0	Hotel	4.5

	60	Austria	Innere Stadt	152	4.0	Hotel	4.3
	61	Austria	Innere Stadt	115	4.0	Hotel	4.3
##		Austria	Innere Stadt	806	5.0	Hotel	4.5
	63	Austria	Innere Stadt	138	4.0	Hotel	4.5
	64	Austria	Innere Stadt	95	3.0	Apartment	3.7
	65	Austria	Innere Stadt	146	4.0	Hotel	4.4
	66	Austria	Innere Stadt	103	3.0	Pension	4.0
	67	Austria	Innere Stadt	125	3.5	Apartment	NA
##	68	Austria	Innere Stadt	98	3.0	Hotel	3.7
##	69	Austria	Innere Stadt	121	3.5	Hotel	4.5
##	70	Austria	Innere Stadt	149	4.0	Hotel	4.0
##	71	Austria	Innere Stadt	120	3.0	Hotel	3.9
##	72	Austria	Innere Stadt	157	3.0	Hotel	4.4
##	73	Austria	Innere Stadt	261	5.0	Hotel	4.8
##	74	Austria	Innere Stadt	145	3.5	Apartment	4.1
##	75	Austria	Innere Stadt	275	4.0	Apartment	4.3
##	76	Austria	Innere Stadt	253	3.5	Apartment	NA
##	77	Austria	Innere Stadt	209	4.0	Apartment	NA
##	78	Austria	Innere Stadt	112	4.0	Hotel	4.0
##	79	Austria	Innere Stadt	138	4.0	Hotel	4.3
##	80	Austria	Innere Stadt	84	3.0	Pension	4.0
##	81	Austria	Innere Stadt	199	4.5	Hotel	4.5
##	82	Austria	Innere Stadt	203	5.0	Hotel	4.4
##	83	Austria	Innere Stadt	116	3.0	Vacation home Condo	NA
##	84	Austria	Innere Stadt	107	3.5	Apartment	NA
##	85	Austria	Innere Stadt	127	3.5	Apartment	NA
##	86	Austria	Innere Stadt	104	3.5	Apartment	NA
##	87	Austria	Innere Stadt	168	3.5	Apartment	4.0
##	88	Austria	Innere Stadt	544	5.0	Hotel	4.8
##	00				- ^	TT - + - 7	
	89	Austria	Innere Stadt	252	5.0	Hotel	4.6
	90	Austria Austria	Innere Stadt Innere Stadt	252 323	5.0	Hotel	4.6 4.5
##							
## ##	90	Austria	Innere Stadt	323	5.0	Hotel Hotel	4.5
## ## ##	90 91	Austria Austria	Innere Stadt Innere Stadt	323 158	5.0 3.0	Hotel	4.5
## ## ## ##	90 91 92	Austria Austria Austria	Innere Stadt Innere Stadt Innere Stadt	323 158 156	5.0 3.0 3.5	Hotel Hotel Apartment	4.5 4.3 4.0
## ## ## ##	90 91 92 93	Austria Austria Austria Austria	Innere Stadt Innere Stadt Innere Stadt Innere Stadt	323 158 156 218	5.0 3.0 3.5 4.0	Hotel Hotel Apartment Hotel	4.5 4.3 4.0 4.6
## ## ## ## ##	90 91 92 93 94	Austria Austria Austria Austria Austria	Innere Stadt Innere Stadt Innere Stadt Innere Stadt Innere Stadt	323 158 156 218 218	5.0 3.0 3.5 4.0 4.0	Hotel Hotel Apartment Hotel Hotel Hotel	4.5 4.3 4.0 4.6 4.5
## ## ## ## ##	90 91 92 93 94 95 96	Austria Austria Austria Austria Austria Austria Austria Austria	Innere Stadt	323 158 156 218 218 135 219	5.0 3.0 3.5 4.0 4.0 3.0	Hotel Hotel Apartment Hotel Hotel Apartment	4.5 4.3 4.0 4.6 4.5 3.9
## ## ## ## ## ##	90 91 92 93 94 95	Austria Austria Austria Austria Austria Austria	Innere Stadt Innere Stadt Innere Stadt Innere Stadt Innere Stadt Innere Stadt	323 158 156 218 218 135 219 179	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0	Hotel Hotel Apartment Hotel Hotel Apartment Hotel Apartment Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4
## ## ## ## ## ##	90 91 92 93 94 95 96 97	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 3.5	Hotel Hotel Apartment Hotel Hotel Apartment	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4
## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98	Austria Austria Austria Austria Austria Austria Austria Austria Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 3.5 4.0	Hotel Hotel Apartment Hotel Hotel Apartment Hotel Apartment Hotel Apartment	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4
## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 3.5 4.0	Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA
## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 3.5 4.0 4.0 5.0	Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.5
## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 3.5 4.0 4.0 5.0	Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.5
## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 3.5 4.0 4.0 5.0 4.0	Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Apartment	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.5 4.3
## ## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 3.5 4.0 4.0 5.0 4.0 3.0	Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Hotel Hotel Hotel Apartment	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.5 4.3 4.1 NA
## ## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108 290	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 5.0 4.0 4.0 3.5 4.0 3.5	Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Apartment	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.3 4.1
## ## ## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108 290 127	5.0 3.0 3.5 4.0 4.0 3.0 2.0 4.0 5.0 4.0 4.0 3.5 4.0 3.5	Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Apartment Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.5 4.3 4.1 NA 3.5 NA
## ## ## ## ## ## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108 290 127 114	5.0 3.0 3.5 4.0 4.0 3.0 4.0 5.0 4.0 5.0 4.0 3.5 4.0 3.5 4.0 3.0 5.0	Hotel Hotel Apartment Hotel Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Hotel Apartment Hotel Hotel Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Guest House	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.3 4.1 NA 3.5 NA 4.0 3.0
## ## ## ## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108 290 127 114 163	5.0 3.0 3.5 4.0 4.0 3.0 4.0 5.0 4.0 3.5 4.0 3.5 4.0 3.0 4.0 3.0	Hotel Hotel Apartment Hotel Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Hotel Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Hotel Hotel Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.3 4.1 NA 3.5 NA 4.0 3.0
## ## ## ## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108 290 127 114 163 116	5.0 3.0 3.5 4.0 4.0 3.0 4.0 5.0 4.0 3.5 4.0 3.5 4.0 4.0 3.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Hotel Hotel Apartment Hotel Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Apartment Hotel Hotel Apartment	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.3 4.1 NA 3.5 NA 4.0 3.0 4.1
## ## ## ## ## ## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108 290 127 114 163 116 226	5.0 3.0 3.5 4.0 4.0 3.5 4.0 4.0 5.0 4.0 3.5 4.0 4.0 3.5 4.0 4.0 5.0 4.0 5.0 4.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	Hotel Hotel Apartment Hotel Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Apartment Hotel Hotel Hotel Hotel Hotel Hotel Hotel Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.3 4.1 NA 3.5 NA 4.0 3.0 4.1 4.5
## ## ## ## ## ## ## ## ## ## ## ## ##	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108 290 127 114 163 116 226 231	5.0 3.0 3.5 4.0 3.0 2.0 4.0 3.5 4.0 4.0 3.5 4.0 3.5 4.0 4.0 3.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	Hotel Hotel Apartment Hotel Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Hotel Hotel Hotel Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.3 4.1 NA 3.5 NA 4.0 3.0 4.1 4.5 4.3
######################################	90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111	Austria	Innere Stadt	323 158 156 218 218 135 219 179 511 157 146 200 157 138 108 290 127 114 163 116 226	5.0 3.0 3.5 4.0 4.0 3.5 4.0 4.0 5.0 4.0 3.5 4.0 4.0 3.5 4.0 4.0 5.0 4.0 5.0 4.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	Hotel Hotel Apartment Hotel Hotel Hotel Hotel Apartment Hotel Apartment Hotel Hotel Hotel Hotel Apartment Hotel Hotel Hotel Hotel Hotel Hotel Hotel Hotel	4.5 4.3 4.0 4.6 4.5 3.9 4.0 4.4 NA 4.5 4.3 4.1 NA 3.5 NA 4.0 3.0 4.1 4.5

		Austria	Innere Stadt	135	3.5	Apartment	1.0
##		Austria	Innere Stadt	184	5.0	Hotel	4.5
##		Austria	Innere Stadt	384	5.0	Hotel	4.8
##		Austria	Innere Stadt	166	4.0	Hotel	4.3
##		Austria	Innere Stadt	187	5.0	Hotel	4.1
##	119	Austria	Innere Stadt	371	5.0	Hotel	4.6
##	120	Austria	Innere Stadt	156	4.0	Pension	4.4
##	121	Austria	Innere Stadt	220	3.5	Apartment	NA
##	122	Austria	Innere Stadt	169	4.0	Hotel	4.5
##	123	Austria	Innere Stadt	103	3.0	Apartment	NA
##	124	Austria	Innere Stadt	266	5.0	Apartment	4.5
##	125	Austria	Innere Stadt	131	3.0	Pension	3.9
##	126	Austria	Innere Stadt	168	4.0	Apartment	4.6
##	127	Austria	Innere Stadt	101	3.0	Apartment	NA
##	128	Austria	Innere Stadt	364	3.5	Apartment	NA
##	129	Austria	Innere Stadt	242	4.0	Hotel	4.8
##	130	Austria	Innere Stadt	223	4.0	Hotel	3.5
##	131	Austria	Innere Stadt	149	4.0	Hotel	4.4
##	132	Austria	Innere Stadt	232	3.5	Apartment	NA
##	133	Austria	Innere Stadt	114	4.0	Hotel	4.0
##	134	Austria	Innere Stadt	253	3.5	Apartment	2.0
##	135	Austria	Innere Stadt	163	4.0	Apart-hotel	4.4
##	136	Austria	Innere Stadt	116	3.0	Pension	4.1
##	137	Austria	Innere Stadt	139	4.0	Hotel	3.5
##	138	Austria	Innere Stadt	91	3.5	Apartment	3.2
##	139	Austria	Josefstadt	79	3.0	Hotel	3.5
##	140	Austria	Josefstadt	66	4.0	Pension	3.7
##	141	Austria	Josefstadt	100	3.0	Apartment	3.0
##	142	Austria	Josefstadt	75	2.5	Pension	3.0
##	143	Austria	Josefstadt	73	2.0	Pension	3.5
##	144	Austria	Josefstadt	127	5.0	Hotel	4.1
##	145	Austria	Josefstadt	110	3.0	Hotel	4.1
##	146	Austria	Josefstadt	88	3.0	Hotel	4.4
##	147	Austria	Josefstadt	59	3.0	Pension	3.7
##	148	Austria	Josefstadt	355	4.0	Apartment	NA
##	149	Austria	Josefstadt	59	3.0	Hotel	3.9
##	150	Austria	Josefstadt	119	4.0	Hotel	4.0
##	151	Austria	Josefstadt	152	4.0	Hotel	4.3
##	152	Austria	Josefstadt	102	4.0	Hotel	4.0
##	153	Austria	Josefstadt	363	3.5	Apartment	5.0
##	154	Austria	Josefstadt	54	3.0	Hotel	3.2
##	155	Austria	Josefstadt	101	3.0	Apartment	4.0
##	156	Austria	Josefstadt	75	2.0	Hotel	4.0
##	157	Austria	Josefstadt	73	2.0	Hotel	3.9
##	158	Austria	Josefstadt	94	3.0	Hotel	4.1
##	159	Austria	Josefstadt	64	4.0	Pension	3.5
##	160	Austria	Josefstadt	81	3.5	Apart-hotel	3.7
##	161	Austria	Josefstadt	162	3.0	Apartment	4.0
##	162	Austria	Josefstadt	115	4.0	Hotel	4.5
##		Austria	Josefstadt	101	4.0	Apartment	4.4
##		Austria	Josefstadt	68	3.0	Hotel	3.7
##		Austria	Kaerntner Strasse	354	5.0	Hotel	4.5
		Austria	Kaerntner Strasse	153	4.0	Hotel	4.1
		Austria	Kaerntner Strasse	202	5.0	Hotel	4.3
					<b>.</b>	110 0 0 1	

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		Austria	Kaerntner Strasse	169	4.0	Hotel	4.1
##		Austria	Kaerntner Strasse	182	4.0	Hotel	4.5
##		Austria	Kaerntner Strasse	193	3.0	Apartment	NA
##		Austria	Kaerntner Strasse	138	4.0	Pension	4.1
##		Austria	Kaerntner Strasse	527	5.0	Hotel	4.8
##		Austria	Kaerntner Strasse	142	4.0	Hotel	4.4
##		Austria	Kaerntner Strasse	98	3.5	Apartment	NA
##		Austria	Landstrasse	110	4.0	Hotel	4.3
##		Austria	Landstrasse	82	3.5	Apartment	4.1
##		Austria	Landstrasse	91	3.5	Apartment	2.5
##		Austria	Landstrasse	150	3.5	Apartment	NA
##		Austria	Landstrasse	83	3.5	Apartment	4.4
##		Austria	Landstrasse	95	4.5	Apartment	4.0
##		Austria	Landstrasse	131	3.0	Apartment	3.7
##		Austria	Landstrasse	162	4.0	Bed and breakfast	4.8
##		Austria	Landstrasse	177	5.0	Hotel	4.3
##		Austria	Landstrasse	122	2.0	Apartment	4.0
##		Austria	Landstrasse	79	3.0	Apartment	2.0
##	186	Austria	Landstrasse	82	4.0	Hotel	4.0
##	187	Austria	Landstrasse	82	4.0	Hotel	4.1
##	188	Austria	Landstrasse	66	3.0	Hotel	3.9
##	189	Austria	Landstrasse	169	4.0	Hotel	4.1
##	190	Austria	Landstrasse	59	3.0	Guest House	3.7
##	191	Austria	Landstrasse	109	4.0	Hotel	4.1
##	192	Austria	Landstrasse	104	3.0	Hotel	3.4
##	193	Austria	Landstrasse	145	3.5	Hotel	4.3
##	194	Austria	Landstrasse	58	3.5	Apartment	2.0
##	195	Austria	Landstrasse	107	4.0	Vacation home Condo	4.3
##	196	Austria	Landstrasse	85	3.0	Hotel	3.5
##	197	Austria	Landstrasse	184	4.0	Apartment	4.5
##	198	Austria	Landstrasse	137	4.5	Hotel	4.1
##	199	Austria	Landstrasse	116	4.5	Hotel	4.5
##	200	Austria	Landstrasse	157	2.0	Apartment	3.7
##	201	Austria	Landstrasse	110	3.0	Hotel	3.7
##	202	Austria	Landstrasse	134	4.0	Hotel	4.3
##	203	Austria	Landstrasse	79	4.0	Hotel	3.7
##	204	Austria	Landstrasse	143	3.0	Apartment	4.5
##	205	Austria	Landstrasse	132	4.0	Hotel	4.1
##	206	Austria	Landstrasse	68	4.0	Apartment	4.0
##	207	Austria	Leopoldstadt	128	4.0	Hotel	4.1
##	208	Austria	Leopoldstadt	99	3.0	Hotel	4.5
##	209	Austria	Leopoldstadt	149	2.0	${\tt Apartment}$	2.2
##	210	Austria	Leopoldstadt	86	4.0	Hotel	4.0
##	211	Austria	Leopoldstadt	155	3.0	Apartment	4.1
##	212	Austria	Leopoldstadt	63	3.0	Hotel	3.4
##	213	Austria	Leopoldstadt	157	2.0	Apartment	3.7
##	214	Austria	Leopoldstadt	134	3.5	Hotel	4.0
##	215	Austria	Leopoldstadt	141	5.0	Apartment	4.3
##	216	Austria	Leopoldstadt	79	3.0	Hotel	3.7
##	217	Austria	Leopoldstadt	138	4.0	Hotel	4.0
##	218	Austria	Leopoldstadt	113	4.0	Hotel	4.5
##	219	Austria	Leopoldstadt	171	3.0	Apartment	3.5
##	220	Austria	Leopoldstadt	56	2.0	Hotel	3.5
##	221	Austria	Leopoldstadt	84	3.0	Hotel	3.9

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		Austria	Leopoldstadt	72 507	2.0	Hotel	4.0
##		Austria	Leopoldstadt	587	5.0	Hotel Hotel	1.0
##		Austria	Leopoldstadt	68	3.0		4.0
##		Austria Austria	Leopoldstadt	102 96	3.5 3.0	Hotel	3.9
##			Leopoldstadt			Apartment	3.4
##		Austria	Leopoldstadt	81	1.0	Hotel	3.7
##		Austria	Leopoldstadt	82 66	3.0	Hotel	4.1
##		Austria	Leopoldstadt	66	3.0	Hotel	4.0
##		Austria Austria	Leopoldstadt	87 264	3.0 4.0	Apartment	3.9
##			Leopoldstadt	364	5.0	Apartment	NA 4.5
##		Austria	Leopoldstadt	240		Hotel	
##		Austria	Leopoldstadt	113	3.0	Hotel	4.5
##		Austria	Leopoldstadt	106	3.0	Hotel	4.5
##		Austria	Leopoldstadt	89	3.0	Hotel	4.1
##		Austria	Leopoldstadt	61	2.0	Hotel	4.0
##		Austria	Leopoldstadt	92	3.5	Apartment	4.5
##		Austria	Leopoldstadt	106	4.0	Hotel	4.1
##		Austria	Leopoldstadt	100	4.0	Hotel	4.0
##		Austria	Leopoldstadt	75	3.0	Hotel	4.1
##		Austria	Leopoldstadt	84	3.0	Hotel	2.2
##		Austria	Leopoldstadt	151	4.0	Hotel	4.6
##		Austria	Leopoldstadt	87	3.0	Hotel	3.5
##		Austria	Leopoldstadt	117	4.0	Hotel	4.4
##		Austria	Leopoldstadt	120	4.0	Hotel	4.5
##		Austria	Leopoldstadt	132	3.5	Apartment	NA
##		Austria	Leopoldstadt	68	2.5	Hotel	3.9
##		Austria	Margareten	383	3.0	Hotel	4.0
##		Austria	Margareten	160	4.0	Apartment	4.3
##		Austria	Margareten	135	2.0	Apartment	NA
##		Austria	Margareten	111	4.5	Hotel	4.5
##		Austria	Margareten	174	4.0	Hotel	4.3
##		Austria	Margareten	63	3.0	Hotel	3.5
##		Austria	Margareten	73	3.0	Apartment	4.3
##		Austria	Margareten	100	3.5	Hotel	4.5
##		Austria	Margareten	162	3.5	Apartment	NA
##		Austria	Margareten	86	4.0	Hotel	3.9
		Austria	Margareten	103	3.0	Guest House	NA
##	259	Austria	Margareten	67	3.0	Hotel	4.0
##	260	Austria	Margareten	129	4.0	Hotel	4.1
		Austria	Margareten	80	3.0	Apartment	4.1
##	262	Austria	Margareten	131	2.0	Apartment	3.2
##	263	Austria	Margareten	150	3.5	Apartment	5.0
##	264	Austria	Mariahilf	159	3.0	Apartment	4.6
##	265	Austria	Mariahilf	86	3.0	Hotel	4.0
		Austria	Mariahilf	96	2.0	Hotel	3.7
##	267	Austria	Mariahilf	131	4.0	Hotel	4.1
##	268	Austria	Mariahilf	103	4.0	Apartment	4.1
		Austria	Mariahilf	85	2.0	Hotel	4.0
##	270	Austria	Mariahilf	80	3.0	Hotel	3.9
##	271	Austria	Mariahilf	93	4.0	Hotel	4.0
		Austria	Mariahilf	81	3.5	Apartment	4.5
		Austria	Mariahilf	77	3.0	Hotel	4.0
##	274	Austria	Mariahilf	140	4.0	Hotel	4.8
##	275	Austria	Mariahilf	99	4.0	Hotel	4.0

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		Austria	Mariahilf Mariahilf	75	$\frac{4.0}{4.0}$	Pension	4.1
		Austria		105		Hotel	4.4
##		Austria	Mariahilf	100	3.5	Hotel	4.5
##		Austria	Mariahilf	89	3.0	Pension	3.7
##		Austria	Mariahilf	82	3.0	Hotel	3.9
##		Austria	Mariahilf	82	4.0	Hotel	3.9
##		Austria	Mariahilf	88	3.0	Apartment	NA
##		Austria	Mariahilf	150	3.0	Apartment	NA
##		Austria	Mariahilf	134	2.0	Apartment	3.7
##		Austria	Mariahilf	87	4.0	Hotel	3.5
##		Austria	Mariahilf	100	4.0	Hotel	3.7
##		Austria	Mariahilf	84	4.0	Hotel	4.3
##		Austria	Mariahilf	52	2.0	Hotel	3.7
##		Austria	Neubau	98	4.0	Hotel	3.7
##		Austria	Neubau	333	5.0	Hotel	4.9
##		Austria	Neubau	99	3.0	Hotel	4.1
##	292	Austria	Neubau	77	3.0	Bed and breakfast	4.0
##	293	Austria	Neubau	160	3.5	Apartment	4.6
##	294	Austria	Neubau	160	3.5	Apartment	5.0
##	295	Austria	Neubau	76	3.0	Hotel	3.5
##	296	Austria	Neubau	89	3.0	Bed and breakfast	4.4
##	297	${\tt Austria}$	Neubau	113	3.0	Hotel	3.7
##	298	${\tt Austria}$	Neubau	110	4.0	Hotel	4.4
##	299	${\tt Austria}$	Neubau	184	4.0	Hotel	4.6
##	300	${\tt Austria}$	Neubau	33	2.0	Hotel	3.2
##	301	Austria	Neubau	1012	3.0	Hotel	4.3
##	302	${\tt Austria}$	Neubau	99	4.0	Hotel	4.1
##	303	Austria	Neubau	122	3.0	Hotel	3.9
##	304	Austria	Neubau	122	4.0	Hotel	4.3
##	305	Austria	Neubau	105	4.0	Hotel	4.0
##	306	Austria	Neubau	98	4.0	Apartment	5.0
##	307	Austria	Neubau	92	3.5	Apartment	NA
##	308	Austria	Neubau	109	4.0	Hotel	4.0
##	309	Austria	Neubau	105	3.0	Hotel	4.1
##	310	Austria	Ottakring	133	2.0	Apartment	3.2
##	311	Austria	Ottakring	133	2.5	Apartment	4.3
##	312	Austria	Ottakring	52	3.0	Hotel	3.5
##	313	Austria	Ottakring	134	2.0	Apartment	3.7
##	314	Austria	Ottakring	80	4.0	Hotel	4.0
##	315	Austria	Rudolfsheim-Funfhaus	91	2.0	Hotel	4.0
##	316	Austria	Rudolfsheim-Funfhaus	129	4.0	Apartment	NA
##	317	Austria	Rudolfsheim-Funfhaus	47	2.0	Hostel	3.7
##	318	Austria	Rudolfsheim-Funfhaus	70	4.0	Hotel	3.9
##	319	Austria	Rudolfsheim-Funfhaus	88	3.5	Apartment	2.2
##	320	Austria	Rudolfsheim-Funfhaus	136	3.0	Hotel	4.5
##	321	Austria	Rudolfsheim-Funfhaus	80	3.0	Hotel	4.1
			Rudolfsheim-Funfhaus	131	2.0	Apartment	3.9
			Rudolfsheim-Funfhaus	81	3.0	Hotel	4.1
			Rudolfsheim-Funfhaus	133	2.0	Apartment	3.7
			Rudolfsheim-Funfhaus	66	4.0	Hotel	3.7
			Rudolfsheim-Funfhaus	77	3.0	Hotel	4.0
			Rudolfsheim-Funfhaus	121	3.0	Apartment	4.5
			Rudolfsheim-Funfhaus	69	4.0	Hotel	3.7
			Rudolfsheim-Funfhaus	83	3.0	Hotel	4.1
##	UZ3	vapotiq	MAGOTI BUGIN LANITHING	03	5.0	HOTEL	4.1

			Rudolfsheim-Funfhaus	53	2.0	Hostel	4.1
			Rudolfsheim-Funfhaus	133	3.5	Apartment	4.0
##	332	Austria	Rudolfsheim-Funfhaus	77	4.0	Hotel	3.9
##	333	Austria	Rudolfsheim-Funfhaus	48	2.0	Hostel	4.5
##	334	Austria	Rudolfsheim-Funfhaus	142	4.5	Hotel	4.3
##	335	Austria	Rudolfsheim-Funfhaus	121	4.0	Hotel	3.9
##	336	${\tt Austria}$	Schonbrunn	68	3.0	Hotel	3.5
##	337	Austria	Schonbrunn	63	3.0	Hotel	3.7
##	338	Austria	Schonbrunn	101	3.0	Hotel	4.5
##	339	Austria	Schonbrunn	75	4.0	Hotel	3.7
##	340	Austria	Schonbrunn	156	4.0	Hotel	4.3
##	341	Austria	Schonbrunn	56	3.0	Hotel	3.5
##	342	Austria	Schonbrunn	82	3.5	Hotel	4.5
##	343	Austria	Schonbrunn	82	4.0	Hotel	4.4
##	344	Austria	Schonbrunn	106	3.0	Hotel	3.7
		Austria	Schonbrunn	85	3.0	Hotel	2.7
##		Austria	Schonbrunn	83	3.5	Hotel	4.5
		Austria	Schonbrunn	92	4.0	Hotel	4.1
		Austria	Schonbrunn	169	3.0	Apartment	4.3
##		Austria	Schonbrunn	77	3.0	Guest House	3.5
##		Austria	Schwechat	92	3.0	Hotel	4.3
##		Austria	Schwechat	166	4.0	Hotel	4.0
##		Austria	Schwechat	137	4.0	Hotel	3.7
##		Austria	Schwechat	99	3.0	Hotel	3.7
##		Austria	Schwechat	140	4.0	Hotel	3.5
##		Austria	Schwechat	80	3.0	Hotel	3.2
##		Austria	Schwechat	91	3.0	Hotel	3.5
##		Austria	Vienna	105	3.5	Apartment	NA 1
##		Austria	Vienna	130	2.0	Apartment	4.0
##		Austria	Vienna	110	3.0	Pension	4.3
##		Austria	Vienna	117	4.0	Hotel	4.0
##		Austria	Vienna	106	4.0	Pension	4.1
##		Austria	Vienna	66	3.0	Hotel	3.7
##		Austria	Vienna	266	5.0	Apartment	4.6
##		Austria	Vienna	58	2.0	Hotel	3.5
##		Austria	Vienna	81	3.5	Hotel	4.1
		Austria	Vienna	109	4.0	Hotel	4.0
##		Austria	Vienna	114	4.5	Hotel	4.3
##		Austria	Vienna	125	3.5	Apart-hotel	4.4
##	369	Austria	Vienna	69	3.0	Guest House	3.7
##	370	Austria	Vienna	69	3.0	Apartment	NA
##	371	Austria	Vienna	97	4.0	Hotel	4.0
##	372	Austria	Vienna	74	4.0	Hotel	3.9
##	373	Austria	Vienna	69	4.0	Hotel	3.7
##	374	Austria	Vienna	83	4.0	Hotel	4.0
##	375	${\tt Austria}$	Vienna	50	3.0	Hotel	3.9
##	376	${\tt Austria}$	Vienna	130	2.0	Apartment	3.2
##	377	${\tt Austria}$	Vienna	134	3.0	Apartment	3.0
##	378	Austria	Vienna	134	3.0	Apartment	4.0
##	379	Austria	Vienna	77	3.0	Hotel	4.0
##	380	Austria	Vienna	102	3.0	Hotel	4.0
##	381	Austria	Vienna	56	3.5	Apartment	3.2
##	382	Austria	Vienna	185	3.0	Apartment	3.0
##	383	Austria	Vienna	130	3.0	Hotel	4.4

```
## 384 Austria
                                Vienna
                                           78
                                                3.0
                                                                    Hotel
                                                                              4.3
## 385 Austria
                                Vienna
                                           76
                                                3.0
                                                                    Hotel
                                                                              3.7
   386 Austria
                                Vienna
                                           68
                                                4.0
                                                                    Hotel
                                                                              4.0
##
  387 Austria
                                Vienna
                                          116
                                                4.0
                                                                              4.0
                                                                    Hotel
   388 Austria
                                Vienna
                                          172
                                                4.0
                                                                    Hotel
                                                                              4.1
##
   389 Austria
                                Vienna
                                           80
                                                                              3.2
                                                2.0
                                                                   Hostel
   390 Austria
                                Vienna
                                           87
                                                                    Hotel
                                                3.0
                                                                              4.0
## 391 Austria
                                Vienna
                                           90
                                                3.0
                                                                    Hotel
                                                                              3.0
   392 Austria
                                Vienna
                                          100
                                                3.5
                                                                    Hotel
                                                                              4.4
##
                                          173
                                                                              3.2
  393 Austria
                                Vienna
                                                2.0
                                                                Apartment
   394 Austria
                                Vienna
                                           92
                                                2.0
                                                                  Pension
                                                                              3.2
##
  395 Austria
                                          133
                                                2.0
                                                                Apartment
                                                                              3.7
                                Vienna
##
   396 Austria
                                Vienna
                                          134
                                                3.5
                                                                Apartment
                                                                              3.2
                                          209
##
   397 Austria
                                Vienna
                                                3.0
                                                                Apartment
                                                                              4.0
##
   398 Austria
                                Vienna
                                                                              4.4
                                           66
                                                3.0
                                                                Apartment
   399 Austria
                                Vienna
                                          114
                                                4.0
                                                                Apartment
                                                                              4.9
                                                4.0
                                                                              3.5
  400 Austria
                           Voesendorf
                                           89
                                                                    Hotel
## 401 Austria
                           Voesendorf
                                           92
                                                4.0
                                                                    Hotel
                                                                              3.7
## 402 Austria
                                                                              4.4
                              Wahring
                                           84
                                                3.0
                                                                    Hotel
## 403 Austria
                               Wahring
                                          124
                                                2.0
                                                                Apartment
                                                                              3.5
## 404 Austria
                               Wahring
                                          185
                                                4.0
                                                                    Hotel
                                                                              4.4
## 405 Austria
                               Wahring
                                           85
                                                4.0
                                                                    Hotel
                                                                              4.0
## 406 Austria
                               Wahring
                                                2.0
                                                                Apartment
                                                                              4.0
                                          133
## 407 Austria
                                Wieden
                                          110
                                                3.5
                                                                    Hotel
                                                                              4.5
## 408 Austria
                                                                              4.3
                                Wieden
                                           86
                                                3.0
                                                                    Hotel
## 409 Austria
                                Wieden
                                          118
                                                4.0
                                                                    Hotel
                                                                              4.1
## 410 Austria
                                Wieden
                                          126
                                                3.5
                                                                              4.5
                                                                    Hotel
## 411 Austria
                                Wieden
                                           92
                                                3.0
                                                                    Hotel
                                                                              4.3
## 412 Austria
                                Wieden
                                          197
                                                                    Hotel
                                                                              4.8
                                                4.0
## 413 Austria
                                Wieden
                                           39
                                                2.5
                                                              Guest House
                                                                              3.5
## 414 Austria
                                Wieden
                                          135
                                                4.0
                                                                    Hotel
                                                                              4.5
## 415 Austria
                                Wieden
                                          125
                                                4.0
                                                                    Hotel
                                                                              4.4
## 416 Austria
                                Wieden
                                           67
                                                2.0
                                                                   Hostel
                                                                              3.4
## 417 Austria
                                                                              4.5
                                Wieden
                                          134
                                                4.0
                                                                    Hotel
## 418 Austria
                                Wieden
                                           91
                                                3.0
                                                                    Hotel
                                                                              3.5
## 419 Austria
                                Wieden
                                          110
                                                3.0
                                                                    Hotel
                                                                              3.9
## 420 Austria
                                Wieden
                                           84
                                                3.5
                                                                Apartment
                                                                              5.0
## 421 Austria
                                Wieden
                                          100
                                                3.0
                                                                    Hotel
                                                                              4.0
## 422 Austria
                                Wieden
                                           95
                                                4.0
                                                                    Hotel
                                                                              4.1
## 423 Austria
                                Wieden
                                           73
                                                3.0
                                                                    Hotel
                                                                              3.4
## 424 Austria
                                Wieden
                                                3.0
                                                                Apartment
                                                                              5.0
                                          109
## 425 Austria
                                Wieden
                                          185
                                                5.0
                                                                    Hotel
                                                                              4.3
## 426 Austria
                                Wieden
                                          100
                                                4.0
                                                                    Hotel
                                                                              4.4
## 427 Austria
                                Wieden
                                           58
                                                                    Hotel
                                                                              3.2
                                                3.0
## 428 Austria
                                Wieden
                                          110
                                                3.5
                                                                Apartment
                                                                              4.0
```

d.

```
save(selected_dataset, file = "new.RData")
load("new.RData")
```

e.

```
head(selected_dataset)
##
     country neighbourhood price stars accommodation_type rating
## 1 Austria 17. Hernals 81
                                    4
                                               Apartment
                                                            4.4
## 2 Austria 17. Hernals
                             81
                                    4
                                                   Hotel
                                                            3.9
## 3 Austria Alsergrund
                             85
                                                   Hotel
                                                            3.7
             Alsergrund
                             83
## 4 Austria
                                    3
                                                   Hotel
                                                            4.0
## 5 Austria Alsergrund
                            82
                                    4
                                                   Hotel
                                                            3.9
## 6 Austria Alsergrund
                            229
                                               Apartment
                                                            4.8
tail(selected_dataset)
       country neighbourhood price stars accommodation_type rating
## 423 Austria
                     Wieden
                               73
                                    3.0
                                                     Hotel
                                                              3.4
## 424 Austria
                     Wieden
                              109
                                    3.0
                                                 Apartment
                                                              5.0
## 425 Austria
                     Wieden 185
                                    5.0
                                                     Hotel
                                                              4.3
## 426 Austria
                    Wieden 100
                                    4.0
                                                     Hotel
                                                              4.4
## 427 Austria
                     Wieden 58
                                                              3.2
                                    3.0
                                                     Hotel
## 428 Austria
                     Wieden 110
                                    3.5
                                                 Apartment
                                                              4.0
#Problem 10# a.
vegetables <- c("Carrot", "Onion", "Garlic", "Eggplant", "Potato", "Lettuce", "Squash", "Cabbage", "Amp
  b.
vegetables <- c(vegetables, "Okra", "Spinach")</pre>
vegetables
   [1] "Carrot"
                   "Onion"
                              "Garlic"
                                        "Eggplant" "Potato"
                                                              "Lettuce"
  [7] "Squash"
                   "Cabbage"
                             "Ampalaya" "Pumpkin"
                                                              "Spinach"
                                                   "Okra"
length(vegetables)
## [1] 12
  c.
added_veg <- append(vegetables, c("Peas", "Bamboo Shoots", "Seaweed", "Cucumber") , after=5)
added_veg
  [1] "Carrot"
                        "Onion"
##
                                       "Garlic"
                                                       "Eggplant"
   [5] "Potato"
                        "Peas"
                                       "Bamboo Shoots" "Seaweed"
## [9] "Cucumber"
                       "Lettuce"
                                       "Squash"
                                                       "Cabbage"
## [13] "Ampalaya"
                       "Pumpkin"
                                       "Okra"
                                                       "Spinach"
```

```
length(added_veg)
## [1] 16
  d.
remove_veg <- added_veg[-c(5,10,15)]</pre>
remove_veg
## [1] "Carrot"
                        "Onion"
                                         "Garlic"
                                                         "Eggplant"
   [5] "Peas"
                        "Bamboo Shoots" "Seaweed"
                                                         "Cucumber"
##
                                                         "Pumpkin"
## [9] "Squash"
                        "Cabbage"
                                         "Ampalaya"
## [13] "Spinach"
length(remove_veg)
## [1] 13
```