

Practica Final Parte 1

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1. Cargad en un dataframe los datos del fichero listings.csv y construid un nuevo data frame

```
datos_raw = read.csv("listings.csv")
datos = datos_raw[-c(1,2,3,5,14,15)]
```

2. Renombrar las variables al castellano.

```
names(datos)[names(datos) == "host_name"] <- "Nombre_propietario"
names(datos)[names(datos) == "neighbourhood"] <- "Vecindario"
names(datos)[names(datos) == "latitude"] <- "Lat."
names(datos)[names(datos) == "longitude"] <- "Long."
names(datos)[names(datos) == "room_type"] <- "Tipo_habitación"
names(datos)[names(datos) == "price"] <- "Precio"
names(datos)[names(datos) == "minimum_nights"] <- "Min.noches"
names(datos)[names(datos) == "number_of_reviews"] <- "N_reseñas"
names(datos)[names(datos) == "number_of_reviews_ltm"] <- "Res.mes"
names(datos)[names(datos) == "availability_365"] <- "Disponibilidad_año"

names(datos)

## [1] "Nombre_propietario" "Vecindario"      "Lat."
## [4] "Long."             "Tipo_habitación" "Precio"
## [7] "Min.noches"        "N_reseñas"       "Res.mes"
## [10] "Disponibilidad_año"
```

3. Calcular mínimo, máximo, media, varianza, cuartiles y mediana.

```
minimo = unname(sapply(datos[c(3,4,6,7,8,9)],FUN=min))
maximo = unname(sapply(datos[c(3,4,6,7,8,9)],FUN=max))
media = unname(sapply(datos[c(3,4,6,7,8,9)],FUN=mean))
varianza = unname(sapply(datos[c(3,4,6,7,8,9)],FUN=var))
cuartiles = sapply(datos[c(3,4,6,7,8,9)],FUN=quantile)

rownames(cuartiles)<-c("Cuartil_0","Cuartil_1","Mediana","Cuartil_3","Cuartil_4"))

datosEstadisticos=0

datosEstadisticos=minimo
datosEstadisticos<-rbind(datosEstadisticos, maximo)
datosEstadisticos<-rbind(datosEstadisticos, media)
datosEstadisticos<-rbind(datosEstadisticos, varianza)
datosEstadisticos<-rbind(datosEstadisticos, cuartiles)

datosEstadisticos

##                   Lat.          Long.        Precio  Min.noches  N_reseñas
## datosEstadisticos 35.813300000 14.195400000    7.00000   1.000000   0.00000
```

```

## maximo      36.080250000 14.577990000 9111.00000 1000.000000 406.00000
## media       35.936815213 14.432584907 90.41663   4.155621 19.30796
## varianza    0.003686415  0.009796129 74014.58644 373.034803 1214.36211
## Cuartil_0   35.813300000 14.195400000 7.00000   1.000000 0.00000
## Cuartil_1   35.899240000 14.372312500 35.00000   1.000000 0.00000
## Mediana     35.915630000 14.484030000 59.00000   2.000000 4.00000
## Cuartil_3   35.952920000 14.499435000 95.00000   3.000000 22.00000
## Cuartil_4   36.080250000 14.577990000 9111.00000 1000.000000 406.00000
##                         Res.mes
## datosEstadisticos 0.000000
## maximo          69.000000
## media           2.082904
## varianza        18.298080
## Cuartil_0      0.000000
## Cuartil_1      0.000000
## Mediana         0.000000
## Cuartil_3      2.000000
## Cuartil_4      69.000000

```

4. Tablas de frecuencias absolutas.

```
table(datos$Vecindario)
```

	Attard	Balzan	Birgu	Birkirkara
##	17	19	83	134
##	Birzebbugia	Bormla	Dingli	Fgura
##	64	126	2	9
##	Floriana	Fontana	Ghajnsielem	Gharb
##	127	22	105	119
##	Għargħur	Għasri	Għaxaq	Gudja
##	17	80	11	18
##	Gżira	Hamrun	Iklin	Isla
##	360	27	9	79
##	Kalkara	Kercem	Kirkop	Lija
##	21	63	8	11
##	Luqa	Marsa	Marsascala	Marsaxlokk
##	12	6	296	60
##	Mdina	Mellieha	Mgarr	Mosta
##	13	463	65	83
##	Mqabba	Msida	Mtarfa	Munxar
##	3	342	5	145
##	Nadur	Naxxar	Paola	Pembroke
##	122	105	21	78
##	Pieta	Qala	Qormi	Qrendi
##	82	138	44	13
##	Rabat (Malta)	Rabat (Victoria)	Safi	San Giljan
##	113	121	7	836
##	San Gwann	San Lawrenz	San Pawl il-Bahar	Sannat
##	188	51	843	46
##	Santa Lucija	Santa Venera	Siggiewi	Sliema
##	1	23	25	926

##	Swieqi	Ta' Xbiex	Tarxien	Valletta
##	396	53	32	470
##	Xaghra	Xewkija	Xghajra	Zabbar
##	250	52	21	28
##	Zebbug (Għawdex)	Zebbug (Malta)	Zejtun	Zurrieq
##	313	52	41	25

```
table(datos$Nombre_propietario)
```

##			19 Rooms	
##		4	1	
##	360 Deluxe Rooms		360 Estates	
##		19	109	
##		50	Ā-yfrid	
##		3	3	
##	Ā-zgħiġi		Aaron	
##		1	39	
##	Abdussalma		Abel	
##		1	2	
##	Abhinav		Abhishek	
##		1	1	
##	Abigail		Abigail & Patrick	
##		5	1	
##	Abraham		Abubakr	
##		2	1	
##	Accommodation		Adam	
##		1	6	
##	Adel		Adelbert	
##		1	25	
##	Adeola		Adisa	
##		1	1	
##	Adrian		Adrian Paul	
##		12	2	
##	Adriana		Adrianna	
##		1	1	
##	Adrien		Adrienn	
##		1	1	
##	Adrienne		Agata	
##		1	2	
##	Agnes		Agnieszka	
##		5	2	
##	Agostino		Ahmed	
##		1	1	
##	Ahmet		Aislynn	
##		1	2	
##	Aj		Al	
##		1	2	
##	Al Faro		Alain	
##		2	1	
##	Alan		Alana	
##		4	2	
##	Albain		Albert	
##		1	6	

##	Alberto	Alda
##	9	1
##	Aldo	Aldo E Gabriele
##	8	1
##	Ale	Aleandra
##	1	1
##	Alejandro	Aleksandar
##	2	1
##	Alena	Alessandra
##	2	2
##	Alessandro	Alessia
##	2	1
##	Alex	Alexander
##	31	19
##	Alexandra	Alexandra And Dimitar
##	18	1
##	Alexandra, Mark And Dolly	Alexandru
##	6	1
##	Alexei / Mireille	Alexia
##	15	19
##	Alexiei	Alexis
##	2	2
##	Alfonso	Alfonso&Tatiana
##	6	1
##	Alfred	Ali
##	21	3
##	Alice	Alicia
##	4	1
##	Alina	Alisha
##	3	1
##	Alison	Alissandra
##	24	1
##	Aliz	All Nations
##	1	4
##	Allen	Alper
##	1	1
##	Alvin	Am
##	8	1
##	Amanda	Amaru
##	20	1
##	Ambrose	Ambrus
##	1	1
##	Amelia	Amer
##	1	2
##	Amin	Amir & Jana
##	1	1
##	Amjad	Amos
##	1	1
##	Amr	Amy
##	25	10
##	Ana	Ana (Anne Marie) & Sophia
##	5	2
##	Anabel	Analisa
##	1	1

##	Analise	Anastasia
##	1	1
##	Anatole	Anda
##	1	1
##	Anderson	Andino
##	1	1
##	AndrÃ;s	AndrÃ©
##	9	2
##	Andras	Andre
##	1	12
##	Andre And Stef	Andrea
##	1	53
##	Andrea And	Andreana
##	1	5
##	Andreas	Andreas & Antonija
##	4	2
##	Andreea	Andrei
##	10	18
##	Andrei & Erica	Andres Camilo
##	1	1
##	Andrew	Andrew & Manuela
##	25	1
##	Andrew And Luisa	Andrew.S .
##	2	2
##	Andrey	Andy
##	6	2
##	Aneta	AngÃ©oline
##	2	3
##	Angel	Angela
##	6	3
##	Angele	Angelica
##	2	3
##	Angelina	Angie
##	1	3
##	Angie -	Angie Vanessa
##	1	1
##	Ania	Anita
##	12	3
##	Anja	Ann
##	1	10
##	Ann-Sophie	Ann - Mariann - Paula
##	1	1
##	Ann Marie	Anna
##	2	24
##	Anna & Eddie	Anna Grace
##	1	2
##	Anna Maria Cachia	Anna Rita
##	1	1
##	Annabel	Annabelle
##	3	2
##	Annalise	Annamaria
##	3	1
##	Anne	Anne Marie
##	8	1

##	Anneliese	AnneMarie
##	1	1
##	Annette	Annie & Greg
##	6	1
##	Annika	Annunziato
##	1	2
##	AntÃ³nia	Anthea
##	1	1
##	Anthony	Anthony Peter
##	16	1
##	Antoine	Antoine And Eniko
##	13	1
##	Antoinette	Anton
##	8	10
##	Antonella	Antonia
##	11	3
##	Antonio	Antonio Martino
##	5	1
##	Antony	Anya
##	1	2
##	Archibald	Arianne
##	1	1
##	Arnaud	Arnold
##	3	2
##	Arthur	Arthur D.
##	1	1
##	Arve	Asaf
##	1	1
##	Ashore	Asif
##	1	4
##	Astride	Asya
##	1	1
##	Audrey	AurÃ©lie
##	7	1
##	Auri	Axele
##	2	1
##	Ayman	Ayoub
##	1	3
##	Azzurra	Barbara
##	1	34
##	Baris	Baron
##	2	92
##	Beatrix	Beatriz
##	1	1
##	Bebeto	Becky
##	1	8
##	Bekki	Bella
##	1	1
##	Ben	Ben & Rosita
##	14	1
##	Benedek	Benjamin
##	1	3
##	Benny	Beppe
##	2	4

##	Beri	Bernadette
##	2	5
##	Bernard	Bernadette
##	5	3
##	Bernadette & David	Bernice
##	2	8
##	Bertu	Besim KÃ¶ksal
##	1	2
##	Bettina	Biagio
##	1	1
##	Bilal	Biljana
##	1	10
##	Bill	Birgit
##	3	3
##	Bjoern	Bjorn
##	1	3
##	Blessing	Blue
##	1	15
##	Blue Holiday	Bodor Elvira
##	1	1
##	Boho	Bonita
##	7	3
##	Brandon	Brandy
##	3	1
##	Brenda	Brendan
##	5	1
##	Brendan Sunday	Brendon
##	1	1
##	Brian	Brian & Maria
##	10	1
##	Brian Paul	Bridget
##	1	9
##	Briffa	Brigitte
##	1	1
##	Brigitteromina	Brira
##	2	1
##	Britney	Brooke
##	1	2
##	Buchungsservice SECRA Bookings	Burak
##	1	1
##	C'Est La Vie	CÃ©line
##	31	3
##	Calleja	Calpe
##	2	2
##	Camille	Capt. Charles
##	2	5
##	Carafa Valletta	Carine
##	5	1
##	Carl	Carl & Eliza
##	2	3
##	Carla	Carlo
##	3	2
##	Carm	Carmel
##	1	5

##	Carmelo	Carmen
##	9	35
##	Carmen + Noel	Carol
##	1	8
##	Carolina	Carolina Suites
##	1	11
##	Caroline	Caroline Et Mehdi
##	35	1
##	Carren	Casa Rooms
##	2	32
##	Casmir	Cassi
##	1	5
##	Cast	Cat
##	1	3
##	Catharine	Catherine
##	1	13
##	Cathy	Catriona
##	2	7
##	Cbm	Cecil
##	13	1
##	Cecilia	Celine
##	1	1
##	Cert	Cesare
##	2	2
##	Cesca Holiday Apartments	Cettina
##	2	1
##	Chanelle	Chanelle & Steve
##	1	4
##	Chantelle	Char
##	9	1
##	Charlene	Charles
##	6	12
##	Charles & Myriam	Charles And Marica
##	1	1
##	Charlie	Charline
##	10	1
##	Charlot	Charlotte
##	3	4
##	Charmaine	Chatherine
##	8	3
##	Chelsi	Cheour
##	1	1
##	Cherie	Cherise
##	1	1
##	Cheryl	Chevalier Gilbert
##	6	1
##	Chiara	ChloÃ©
##	21	1
##	Chloe	Chris
##	2	47
##	Chris & Adam	Chris & Anabel
##	1	1
##	Chris & Vanessa	Christal
##	18	2

##	Christian	Christianne
##	7	3
##	Christiano	Christina
##	4	5
##	Christine	Christine & Ross
##	19	1
##	Christoffel	Christopher
##	13	12
##	Chuck	Cindy
##	1	3
##	Claire	Clare
##	19	18
##	Clarissa	Claud
##	3	2
##	Claude	Claudette
##	5	1
##	Claudia	Claudine
##	9	16
##	Claudio	Claus
##	4	1
##	Clay G	Clayton
##	1	8
##	Cleaven	Clement
##	1	5
##	Cleven	Clifford
##	1	5
##	Clint	Clinton
##	9	1
##	Clinton And Daniel	Clive
##	1	13
##	Cloris	Colin
##	1	2
##	Colin & Anna	Comet
##	1	18
##	Comfy Stay	Concetta
##	1	2
##	Connie	Connor
##	5	1
##	Consiglia	Consiglio
##	3	1
##	Cora	Corinne
##	1	1
##	Corrado	Corto
##	1	5
##	Counts	Craig
##	12	9
##	Cris	Cristian
##	10	5
##	Cristina	Cristina Maria
##	5	2
##	Cynthia	D View 4 You
##	8	3
##	Dagmara	Dale
##	3	1

##	Dalia	Damian
##	1	1
##	Damiano	Damon
##	5	1
##	Dan	Dana
##	1	2
##	Danae	Daniel
##	1	37
##	Daniela	Daniela & Stephen
##	13	2
##	Daniella	Danielle
##	1	3
##	Danijel	Danijela
##	1	3
##	Danika	Danni
##	2	3
##	Dany	Daphne
##	1	2
##	Dar	Daria
##	1	3
##	Darinka	Dario
##	1	4
##	Dario & Stefano	Darren
##	8	9
##	Darryn	Dathan
##	3	1
##	Dave	David
##	3	36
##	Dbr Malta	Dean
##	3	1
##	Debbie	Debi
##	5	1
##	Deborah	Dee
##	8	2
##	Dejan	Deloris
##	2	1
##	Denis	Denise
##	7	12
##	Dennis	DeReday Holiday Homes
##	1	13
##	Derek	Derek & Dylan
##	1	9
##	Derya	Desiree
##	1	3
##	Desphina	Diana
##	1	6
##	Diandra	Diane
##	1	12
##	Didier	Diego
##	1	2
##	Diego Armando	Dilek
##	2	1
##	Dilyana	Dima & Biba
##	1	2

##		Dimi	Din L-Art
##		5	2
##		Dinh	Dione
##		2	1
##		Dione&Marisol	Dirk
##		2	1
##		Dolly	Dolores
##		1	1
##	Dolphin Gozo Rentals		Dom
##		9	3
##	Domas & Cristina		Domenico
##		10	1
##		Dominic	Dominique
##		7	1
##		Doms	Donald
##		2	3
##		Donia	Donna
##		3	8
##		Dora	Doreen
##		1	12
##		Dori	Dorian
##		1	9
##		Dorianne	Doris
##		11	1
##		Dorothy	Dragan
##		8	4
##		Dragana	Dre
##		1	1
##		Dri	Driss
##		1	1
##		Duncan	Dunstan
##		3	1
##		Dzhihan	E. Paula
##		1	1
##		Eamon	Ed
##		1	17
##		Eddie	Edel
##		1	3
##		Edgar	Ediana
##		2	1
##		Edina	Edith
##		3	1
##	Edmund Gordon		Edoardo
##		1	1
##		Edurne	Edvalt
##		2	1
##		Edward	Edwin
##		18	5
##		Edwina	Elaine
##		1	15
##		Elena	Eleonora
##		10	5
##		Elif	Elina
##		1	1

##	Elisa	Elisabetta Luciana
##	3	3
##	Elise	Elisenda
##	1	1
##	Elka	Elke
##	1	2
##	Ellas	Ellie
##	2	1
##	Elton	Eman
##	4	9
##	Emann	Emanuel
##	2	6
##	Emanuel & Miriam Sammut	Emanuela
##	1	2
##	Emilie	Emily
##	1	4
##	Emma	Emmanuel
##	5	3
##	Emmanuel B.	Emre
##	1	2
##	En	Enza
##	1	1
##	Eraldo	Eric
##	1	3
##	Erica	Erik
##	3	1
##	Erkan	Ersilia
##	1	2
##	Ertu	Esen
##	1	1
##	Estebian	Estelle
##	1	1
##	Esther	Esther & Kata
##	4	1
##	Estrestates	Ethel
##	1	2
##	Etienne	Eugenio & Valentina
##	2	3
##	Eurydike	Eva
##	1	5
##	Eve	Evelyn
##	5	1
##	Evgueni	Ewelina
##	16	1
##	Fabian	Fabien
##	1	1
##	Fabienne	Fabio
##	1	4
##	Fabio Luigi	Fabrice
##	1	3
##	Fabsta	Fakhra
##	1	1
##	Falloutguy	Fay
##	1	3

##	Federica	Federico
##	3	6
##	Feit	Feliciann
##	2	2
##	Felicity	Felix
##	4	1
##	Ferhat	Fernando
##	1	14
##	Filip	Filippo
##	2	1
##	Filo	Finn
##	4	2
##	Fiona	FiveTrees
##	11	2
##	Flavia	Fliss
##	2	1
##	Fra	Fran
##	1	5
##	Fran D'Or	FranÃ§ois
##	3	1
##	France	Frances
##	1	1
##	Francesca	Francesco
##	22	5
##	Francis	Francis R
##	2	1
##	Franco	Francois
##	8	2
##	Frank	Frankie
##	22	10
##	Franny	Frans
##	3	2
##	Fransina	Franz
##	1	2
##	Freda	Freddy&Eve
##	1	7
##	Frederick	Frida
##	7	1
##	Fritz	GÃ¶kay
##	1	1
##	Gabor	Gabriel
##	1	4
##	Gabriela	Gabriele
##	1	7
##	Gabriella	Gabriella Christine
##	1	1
##	Gabriella Y Vic	Gabrielle
##	1	1
##	Gaby	Gaia
##	7	1
##	Gail	Galin
##	2	1
##	Ganni	Gareth
##	1	4

##	Gary	Gavril
##	17	1
##	Gayle	Genevieve
##	1	1
##	Geoffrey	Geoffroy
##	1	2
##	George	George Lee
##	36	1
##	Georgianne	Georgina
##	1	3
##	Ger	Gerald
##	2	9
##	Gerald Frank	Gerard
##	1	2
##	Gerbert	German
##	1	8
##	Gertrude	GetawaysMalta
##	2	61
##	GetawaysMalta Neville	Giacomo
##	36	3
##	Giacomo Carlos	Gian Antonio
##	1	3
##	Gianluca	Gianmarco
##	7	5
##	Gianni Short Lets	Gigi
##	1	1
##	Gilbert	Gillian
##	1	3
##	Gina	Ginnet
##	1	2
##	Giorgi	Giorgia & Luca
##	2	3
##	Giovann	Giovanni
##	1	2
##	Gis	Giudas William
##	2	1
##	Giulia	Giulia Angela
##	2	4
##	Giuseppe	Giuseppina
##	14	1
##	Gladys	Glen
##	1	3
##	Glenda	Glenmore Mobility
##	2	1
##	Glenn	Gloria
##	15	19
##	Glorianne	Glory
##	2	1
##	Glyn	Glynne
##	1	2
##	Godwin	GodwinDaniel
##	4	1
##	Gonzalo	Gordan
##	2	6

##	Gordon	Gorkem
##	7	1
##	Gozo	Gozo Getaways
##	4	2
##	Gozo Lets	Gozo Village
##	3	22
##	Grace	Gracelee
##	6	1
##	Granny'S Inn	Graziella
##	6	8
##	Grazio	Greta
##	1	5
##	Guido	Gumi
##	1	1
##	Gwen	Gyorgy
##	1	7
##	Hamdi	Hana
##	1	3
##	Hannah	Hanne
##	1	1
##	Hans	Harold
##	2	1
##	Hassan	Hazel
##	3	1
##	Hedi	Helen
##	1	5
##	Helena	Helene
##	4	1
##	Helios	Helmut
##	1	1
##	Henri	Henry
##	5	4
##	Henry And Mary Anne	Herman
##	2	1
##	Hermina	Hermine
##	1	3
##	Hesham	Hila
##	1	1
##	Hind	Hollai
##	2	2
##	HomeOnTheMed	Homestay
##	1	1
##	Howard	Hristina
##	4	1
##	Hubert	Humbert
##	1	5
##	I	Ian
##	8	40
##	Ian & Anna	Ian & Leanne
##	4	1
##	Iannis	Ieva
##	1	2
##	Igor & AnaMarija	Il-LoÄ;Ä;a Boutique Hotel
##	1	5

##	IldikÃ³	And Mark
##	1	12
##	Ilenia	Ilona
##	2	1
##	Imelda	Ina
##	1	1
##	IndrÃ¡-	Ines
##	1	3
##	Inez	Ingrid
##	1	10
##	Inside Valletta	Iolanda
##	1	2
##	Irene	Irina & Blago
##	1	18
##	Isaac	Isabel
##	1	3
##	Ishmael	Ismael
##	1	1
##	Ismail	IstvÃ¡n
##	5	1
##	Istvan	Italy
##	3	10
##	Ivan	Ivan & Milena
##	6	18
##	Ivana	Ivanka
##	1	1
##	Iveta	Ivi
##	3	2
##	Ivonette	Iyesha
##	1	1
##	J	JÃ¶rgen
##	1	1
##	JÃ¶rgen Und Margit	Jacci
##	1	1
##	Jacek	Jack
##	5	1
##	Jackie	Jacob
##	2	1
##	Jacqueline	Jacques
##	12	3
##	Jacqui	Jade
##	9	10
##	Jaki	Jakka
##	6	1
##	Jam	James
##	1	58
##	James &	James Briffa
##	1	1
##	James Villa Holidays	James.Fenech.94
##	14	3
##	Jamie	Jan
##	1	1
##	Jana	Jane
##	1	8

##	Janet	Janice
##	5	19
##	Janice & Liz	Janina
##	1	1
##	Jankarl	Jason
##	5	18
##	Jason Magic	Jasz Jordan
##	5	2
##	Javier	Jay
##	3	5
##	Jaycee	Jayne
##	18	5
##	Jean	Jean-Carl
##	2	1
##	Jean-Christophe	Jean-Marc
##	1	2
##	Jean-Pierre	Jean Bosco
##	2	1
##	Jean Claude	Jean Love And Nicholas
##	2	1
##	Jean Matthias	Jean Paul
##	4	9
##	Jean Pierre	Jeanette
##	14	3
##	Jeanine	Jeannette
##	1	2
##	Jeannine	Jeff
##	1	1
##	Jeffrey	Jelena
##	40	4
##	Jenn	Jenni
##	2	3
##	Jennifer	Jenny
##	9	2
##	Jenny Paola	Jeremy
##	5	6
##	Jerome	Jesabel
##	2	1
##	Jesmond	Jessica
##	8	10
##	Jessica & Nicky	Jez
##	1	2
##	Jhoxa & \220amastes	Jim
##	1	1
##	Jimmy	Jinia
##	2	1
##	Jj	Jm
##	7	2
##	Jo	Jo Laudi
##	5	7
##	Joan	Joane
##	6	1
##	Joann	Joanna
##	1	8

##	Joanne	Jocelyn
##	20	1
##	Jocelyne	Joe
##	1	33
##	Joe And Margaret	Joe And Shirley
##	1	1
##	Joel	Johan And Agnes
##	1	2
##	Johann	Johanna
##	5	3
##	John	John & Liana
##	43	1
##	John Charles	John Paul
##	1	1
##	Johnny	Jolanda
##	3	2
##	Jolene	Jon
##	1	4
##	Jonathan	Jonathan & Benjamin
##	31	1
##	Jonathan & Dorita	Jonno
##	1	1
##	Jordan	Jorge
##	4	21
##	Josanne	Jose
##	1	5
##	Josef	Joseph
##	11	131
##	Joseph & Margaret	Joseph & Maria
##	1	1
##	Joseph Charles	Josephine
##	13	17
##	Josette	Josh
##	24	1
##	Joshua	Josianne
##	8	4
##	Josie	Josienne
##	5	1
##	Joslin	Joumana
##	2	1
##	Jovan	Jovana
##	1	2
##	Joyce	Jp
##	1	1
##	JR Developers	Ju
##	1	1
##	Juan	Juan Francisco
##	1	1
##	Judith	Judy
##	3	4
##	Juergen	Juginder
##	1	1
##	Jul	Jules
##	1	1

##	Julia	Julian
##	6	19
##	Julian David	Juliana
##	1	2
##	Julie	Juliya
##	10	1
##	Julz	Junior
##	2	1
##	Jur	Jurgen
##	1	2
##	Jurgen/Svetlana	Justin
##	2	3
##	Justine	Justyna
##	6	2
##	Kalki	Kalle
##	1	1
##	Kamil	Kamila
##	3	7
##	Kaori	Kara
##	8	1
##	Karen	Karin
##	12	2
##	Karina	Karl
##	2	48
##	Karl & Hasnaa	Karl & Janice
##	1	1
##	Karol	Karolina&Stefan
##	2	1
##	Kasia	Kat
##	15	1
##	Kate	Katherine
##	4	1
##	Kathy	Katia
##	1	7
##	Katie	Katrina
##	2	2
##	Kaye	Keith
##	1	18
##	Kelly	Ken
##	1	16
##	Ken'S	Kenneth
##	1	11
##	Kerry And Nora	Kevin
##	1	30
##	Kh Panda	Khalaaf Kamel
##	1	1
##	Khaled	Kiki
##	1	2
##	Kim	Kimberly
##	6	5
##	Kiro	Kirsten
##	1	4
##	Kirsty	Kizzy
##	3	1

##	Kl'S	Klara
##	1	3
##	Klaudia&Jurgen	Klaus
##	5	1
##	Konrad	Kris
##	6	1
##	Krishna	Krista
##	1	1
##	Kristian	Kristina
##	1	15
##	Kristina And Bernie	Kristine
##	1	4
##	Krisztina And Tibor	Kubra
##	2	1
##	Kurt	Kvr
##	8	1
##	Kwame & Fattima	Kyle
##	3	4
##	Kylie	Lajos
##	3	3
##	Lakshmi	Lara
##	1	6
##	Larissa	Lasha
##	1	4
##	Lasse	Laszlo And Jennifer
##	1	4
##	Lauma	Laura
##	2	11
##	Laura And Victor	Laura Gloria
##	3	4
##	Laurence	Laurie
##	2	11
##	Lawrenc Mario	Lawrence
##	4	8
##	Leanne	Lee
##	4	7
##	Lee & Helen	Leeann & Steven
##	4	1
##	Leela Krishna	Leila
##	1	1
##	Leila Cristina	Lellux
##	1	1
##	Lena	Lenny
##	3	2
##	Leo	Leon
##	7	1
##	Leonard	Leonardo
##	2	2
##	Lesley Ann	Leslie
##	2	3
##	Letizia	Lev
##	6	1
##	Lewis	Lexi & Rob
##	2	3

##	Leyla	Liam
##	2	7
##	Lidia	Lili
##	2	2
##	Lilian	Lilian And Joe
##	4	1
##	Liliana	Lillian
##	20	4
##	Lilly	Lina
##	1	4
##	Linda	Linh RÃ³zsa
##	1	1
##	Lino	Lino C.
##	4	3
##	Linto	Lisa
##	1	27
##	Lisse	Liubava
##	1	3
##	Liudmila	Living Valletta
##	9	1
##	Liz	Liza
##	3	1
##	Lizzy And Matt	Lloyd
##	2	1
##	Lo	Loic, Estelle & Co
##	1	8
##	Loic, Estelle And Co	Lona
##	1	1
##	Lorraine	Loredana
##	1	1
##	Lorena & Dario	Lorenzo
##	2	2
##	Lorette	Loridana
##	2	1
##	Lorie Ann	Loris
##	1	4
##	Lorna	Lorraine
##	14	21
##	Louis	Louise
##	1	17
##	Louise & Nicole	Louiselle
##	1	1
##	Lourdes	Loving Malta
##	4	2
##	Luana	Luca
##	7	6
##	Lucas	Lucia
##	1	4
##	Lucianne	Luciano
##	1	1
##	Lucienne	Lucy
##	2	3
##	Ludwig	Luigi
##	8	1

##	Luis	Luis Alberto
##	6	2
##	Luis Carlos	Luis Mariano
##	1	1
##	Luisa	Luix Carlos
##	1	9
##	Luka	Luke
##	1	8
##	Luke And Amine	Lunzjata
##	5	2
##	Luz&Mos	Luzanne
##	1	1
##	Lydon	Lyna
##	1	1
##	Lynn	Lynne
##	3	1
##	M.K	Ma
##	1	3
##	MÃ;ria	Maciej
##	6	1
##	Madlin	Maeva
##	1	1
##	Mag	Magda
##	1	3
##	Magdalena Corrado&Sheela	Maggie
##	1	1
##	Maja	Maja&Michal
##	7	2
##	Malcolm	Malise
##	16	1
##	Maloka	Malta Accommodation
##	1	2
##	Malta Bnb	Malta Premier
##	4	1
##	MaltaVillageHolidays	Maltese Island
##	5	2
##	Mandy	Mani
##	3	1
##	Manny	Manoel
##	2	8
##	Manolo Fulvio	Mansor
##	1	1
##	Manuel	Manuel And Mariosa
##	5	8
##	Manuela	MARA Holiday Rentals
##	7	1
##	MarÃ;a	MarÃ;a Eugenia
##	1	3
##	Marc	Marcel
##	7	2
##	Marcelline	Marcello
##	1	13
##	Marcin	Marco
##	2	12

##	Marcus	Maree
##	2	1
##	Marga	Margaret
##	1	13
##	Margarita	Margherita
##	8	2
##	Maria	Maria And Paul
##	108	4
##	Maria Angela	Maria Anna
##	1	1
##	Maria Giovanna	Maria Kristina
##	3	1
##	Maria Pia	Maria Rita
##	1	1
##	Maria Teresa	Maria Theresa
##	1	2
##	Mariah	Mariam
##	1	3
##	Marianne	Mariano
##	1	3
##	Marica	Marie
##	3	6
##	Marie-Claire	Marie HÃ©lÃ¨ne
##	1	1
##	Marie Therese	Mariella
##	2	39
##	Mariella & Fabian	Mariella M
##	1	4
##	Marietta	Marilyn
##	1	1
##	Marina	Mario
##	12	42
##	Mario Victor	Marion
##	2	14
##	Mariosa	Marisa
##	1	8
##	Marise	Marit Anette & Dominique
##	1	2
##	Marita	Marius And Oana
##	1	3
##	Marjohn	Marjukka
##	1	2
##	Mark	Mark-Anthony
##	80	1
##	Mark & Christine	Mark & Claudine
##	1	1
##	Mark & Szilvia	Mark + Sacha
##	2	3
##	Mark Alexander	Mark And Aaron
##	1	1
##	Mark Anthony	Mark/Karen
##	6	10
##	Markita	Marko
##	1	2

##	Marlena Karolina	Marlene
##	1	5
##	Marley	Marlon
##	12	1
##	Marouska	Marquita
##	5	1
##	Mars Close	Marta
##	1	3
##	Martha	Marthese
##	2	11
##	Martin	Martina
##	24	6
##	Marvic	Marvik
##	3	7
##	Marvin	Mary
##	3	28
##	Mary-Ann	Mary Ann
##	4	4
##	Mary Anne	Mary Grace
##	3	10
##	Mary Jane	Mary Rose
##	3	3
##	Mary Rose Zammit	Mary Therese
##	3	2
##	Mary Victoria	Maryanko
##	1	2
##	Maryanne	Marygrace
##	6	5
##	Marylee	Marylene
##	1	5
##	Maryrose	Marzio
##	1	3
##	Massimiliano	Massimo
##	4	5
##	Mathieu	Matina
##	1	2
##	Matt	Matthew
##	16	52
##	Matthew & Darren	Matthew & Elaine
##	5	2
##	Mattia	Maureen
##	5	7
##	Maurice	Maurizio
##	2	4
##	Mauro	Mauro & Val
##	1	1
##	Mavis	Mavric
##	1	1
##	Maxime	Maya
##	1	2
##	Mayu	Mdj
##	1	3
##	Med Malta	Mehdi
##	29	1

##	Mehmet	Mehmet Nebi
##	4	3
##	Meike	Mel
##	6	1
##	Melania	Melanie
##	1	5
##	Melchior	Melek
##	2	3
##	Melissa	Mellieha
##	18	1
##	Mellieha Views	Melvin
##	1	1
##	Melvin And Audrey	Merik
##	3	2
##	Mert	Merve
##	4	2
##	Meryelen	Mey
##	1	1
##	Mhmd	Mia
##	1	2
##	MichaÅ,	Michael
##	1	70
##	Michaela	Michaelina
##	3	1
##	Michela	Michelangelo
##	2	5
##	Michele	Michella Anthony
##	1	1
##	Michelle	Mickael
##	19	2
##	Miguel	Miguel Angel
##	1	1
##	Mihaela	Mikasa
##	1	2
##	Mike	Mikela
##	9	1
##	Miki	Milan
##	3	2
##	Milda	Milena
##	1	11
##	Milica	Millicent
##	2	1
##	Mina	Miquel
##	14	1
##	Mireille	Miriam
##	1	7
##	Miriam And Alejandro	Miruna
##	2	7
##	Misawi	Missio Malta
##	2	1
##	Mo	Mohab
##	1	1
##	Mohamed	Mohamed Ali
##	1	1

##	Moira	Mojca
##	6	1
##	Mondosol	Monica
##	13	8
##	Monika	Monique
##	1	2
##	Moon	Moritz
##	1	1
##	Mpth	Ms
##	1	1
##	Msida Maisonette	Muge
##	1	1
##	Murad	Muriel
##	1	1
##	Murielle	Mustafa
##	2	3
##	My House	Nad
##	1	2
##	Nadeen	Nadia
##	2	9
##	Nadine	Nadya
##	5	1
##	Nafida	Nancy
##	2	3
##	Natalia	Natalie
##	5	1
##	Nataliia	Nataly
##	5	1
##	Natasha	Natasha & Trevor
##	7	2
##	Nathalie	Nathalie & FrÃ©dÃ©ric
##	8	1
##	Nauman	Nazzareno
##	2	1
##	Neil	Neilson
##	11	1
##	Nelly & Christophe	Nemat
##	3	2
##	Nemy	Neonila
##	3	1
##	Nera	Nesi
##	1	1
##	Neville	Nicholas
##	3	10
##	Nick	Nicki
##	7	1
##	Nicky	Nico
##	3	4
##	Nicola	Nicola Junior
##	12	1
##	Nicole	Nicole & Isaac
##	5	1
##	Nicoletta	Nicoletta E Gabriele:-)
##	1	4

##	Nicolette	Nieves
##	2	1
##	Nigel	Nigel Anthony
##	11	4
##	Nik	Nikai
##	1	1
##	Nikhil	Nikita
##	1	1
##	Nikki	Nikola
##	4	2
##	Nikolai	Nikos
##	3	1
##	Nilda	Nina
##	1	2
##	Noel	Noel Paul
##	10	1
##	Noeleen	Nora
##	1	1
##	Norali	Norbert
##	1	6
##	Noreen	Norma
##	1	1
##	Norman	Nuno
##	5	1
##	Nuri	0
##	1	1
##	O\200\231clock Bed&Breakfast	Oasis Rooms
##	6	4
##	Odette	Ola
##	2	1
##	Olaf	Olga
##	13	2
##	Olha	Oliver
##	2	4
##	Olivia	Olivier
##	1	7
##	Oluwole	Omar
##	1	11
##	Omer	Omm
##	1	1
##	Ony	Onyx Suites & Apartments
##	5	2
##	Orlagh	Orlane
##	1	2
##	Oscar	Osni
##	3	1
##	Outdoor Sports	Oxley Of London
##	5	2
##	Ozan	P
##	1	1
##	Palazzo	Paloma
##	4	2
##	Pam	Paola
##	2	18

##	Papaya	Pasquale
##	4	1
##	Pat	Patrice
##	1	6
##	Patricia	Patrick
##	12	12
##	Paul	Paul - HolidayLetsMaltaGozo
##	72	25
##	Paula	Pauline
##	5	7
##	Paulo	Pauls
##	7	1
##	Pavle	Pawel
##	1	1
##	Pawlu	Peixuan
##	1	1
##	Penelope	Pep
##	1	3
##	Peppino	Pernilla
##	1	1
##	Perry And Charlene	Peter
##	1	27
##	Peter And Antoinette	Petr
##	1	1
##	Petra	Petrina
##	1	2
##	Philip	Philip, Matthew, Lucy
##	12	1
##	Philippe	Philippina
##	17	2
##	Phoebe0202	Phyllis
##	2	1
##	Piero	Pierre
##	1	20
##	Pio	Pit
##	2	15
##	Pj	Polina
##	1	3
##	Portia	Pri
##	2	1
##	Prince	Prisca
##	3	6
##	Priscilla	Property
##	3	2
##	Przemyslaw (Peter)	Qala
##	3	1
##	Quinton	Race
##	1	1
##	Rach	Racheal
##	1	1
##	Rachel	Rachelle
##	13	3
##	Rafa	Rafal
##	2	1

##	Raffaele	Raffaella
##	1	1
##	Ramon	Ramona
##	2	3
##	Rani	Raphael
##	2	2
##	Rashid	Ray
##	2	25
##	Raymond	Raza
##	10	1
##	Rebecca	Red Malta
##	4	10
##	Regan	Rehulina
##	1	1
##	Reine	RenÃ©e
##	1	2
##	Renata	Renato
##	1	4
##	Rene	Rennie
##	1	5
##	Reno	Rentals
##	3	2
##	Reuben	Reuben Chircop
##	11	1
##	Ria	Riccardo
##	1	2
##	Richard	Ricky & Ari
##	23	2
##	Ridvan	Rimvydas
##	1	1
##	Risto	Rita
##	3	35
##	Ritianne	Ritienne
##	1	2
##	Rivka	Roanna
##	1	1
##	Rob	Robert
##	1	88
##	Roberta	Roberto
##	15	10
##	Roberto Maria	Robin
##	1	1
##	Rocco	Rochelle And Pauline
##	2	7
##	Roderick	Rodianne
##	6	3
##	Rodlene	Rodney
##	1	3
##	Rodrick	Roger & Josianne
##	2	1
##	Romi	Romina
##	1	19
##	Ron	Ronald
##	4	4

##	Ronnie	Rony
##	4	1
##	Roony	Rosa
##	1	2
##	Rosalba	Rosalina
##	5	1
##	Rosann	Rosanna
##	1	1
##	Rosanne	Rosario
##	8	2
##	Rose	Rose-Marie
##	9	5
##	Rose Marie	Rosella
##	1	3
##	Rosemarie	Rosemary
##	2	1
##	Rosette	Rosita
##	5	2
##	Roslyn	Rosmarie
##	2	2
##	Rossana	Roswell
##	1	4
##	Rosy	Rowan
##	1	1
##	Rowena	Rowinda
##	2	1
##	Ruben	Ruby
##	7	1
##	Rudolf	Rudolph
##	1	3
##	Rusiann	Rute
##	1	1
##	Ruth	Ruth & Nigel
##	9	3
##	Ruveyda	Ryan
##	1	24
##	Ryan & Claire	Sabine
##	1	1
##	Sabrina	Sacha
##	5	1
##	Salim	Salvatore
##	1	10
##	Salvina	Salvo
##	1	2
##	Sam	Samantha
##	3	11
##	Sami	Samira
##	1	1
##	Samuel	Sandra
##	14	19
##	Sandro	Sandun
##	4	1
##	Sandy	Santana
##	1	2

##	Santina	Sara
##	2	8
##	Sarah	Sarah Jane
##	17	1
##	Saro	Sash
##	4	1
##	Sasha	Satori
##	8	20
##	Savienne	Savior
##	1	1
##	Saviour	Schantell
##	15	1
##	Scott	Sean
##	2	7
##	Sebastian	Sebastiano
##	4	3
##	Sebastien	Seby
##	1	7
##	See The Sea	Selaine
##	1	1
##	Semira	Senglea House
##	1	4
##	Senglea Real Estate	Seraphim
##	1	1
##	Serene Holidays	Sergei
##	2	1
##	Sergey & Luna	Sergio
##	1	1
##	Seth	Shalise&Tam
##	1	3
##	Shanel	Shannoa
##	1	1
##	Shannon	Shanon
##	1	1
##	Shanti	Sharel
##	1	1
##	Sharion	Sharon
##	1	5
##	Sharon & Jason	Sharon Teresa
##	2	1
##	Shaun	Shawn
##	17	3
##	Shayelle	Sheila
##	1	3
##	Shirley	Short Lets
##	2	21
##	Short Lets Malta	Sigrid
##	126	1
##	Silvan	Silvana
##	2	4
##	Silvana Maria	Silvano
##	1	4
##	Silvio	Silvio & Doris
##	6	1

##	Silvy	Sim
##	1	1
##	Simmy	Simon
##	1	49
##	Simon Borda	Simona
##	2	2
##	Simone	Sinan
##	8	1
##	Sinema	Sixto
##	2	1
##	Skibi	Slavko
##	3	2
##	Sliema Marina Hotel	Soleil
##	4	3
##	Sonette	Sonia
##	1	2
##	Sonja	Sonke
##	4	1
##	Sonya	Sophia
##	1	1
##	Sophie	ST Properties
##	7	12
##	Stanko	Stanley
##	4	3
##	Stef	Stefan
##	1	32
##	Stefan Paul	Stefania
##	1	2
##	Stefania E Paolo	Stefanie
##	1	3
##	Stefano	Steffan
##	16	2
##	Steffi	Stefy
##	3	1
##	Stella	Steph
##	1	2
##	Stephan	Stephania
##	2	3
##	Stephanie	Stephanie Ghio
##	22	5
##	Stephen	Steve
##	19	8
##	Steve & Stefanie	SteveDavinia
##	1	1
##	Steven	Sue
##	9	15
##	Sue-Ellen	Sumanth
##	1	1
##	Sunnaru	Sunshine Holiday Residences
##	1	1
##	Susan	Susann
##	18	3
##	Susanna	Susanne
##	1	11

##	Suz	Suzanna
##	1	1
##	Suzanne	Svetlana
##	9	1
##	Swetlana	Swq
##	1	6
##	Sylvan	Sylvana
##	4	4
##	Sylvana & Joseph	Sylvia
##	1	8
##	Sytem	Szilvia
##	1	5
##	T	Ta' Guzi
##	4	1
##	Ta' Paris	Ta Pinu BnB
##	2	7
##	TÃ©ona&Julien	Talal
##	1	1
##	Talita	Tamara
##	6	1
##	Tamas	Tammam
##	4	1
##	Tania	Tanja
##	4	1
##	Tanya	Tarikul
##	4	2
##	Tasha	Tatiana
##	1	3
##	Tayfun	Tayseer
##	4	1
##	Ted	Teddie
##	1	3
##	Telly	Teo
##	2	1
##	Tere	Terence
##	1	8
##	Teresa	Tereza
##	1	1
##	Tess	Thais
##	1	4
##	The George Hotel Malta	The Heritage Collection
##	1	1
##	The Honeypot	The Letting Company
##	3	7
##	The Ports	The Vegan Yogi Family
##	1	3
##	The Warehouse Group Letting	Thea
##	10	1
##	Theresa	Theresa Medati
##	7	1
##	Therese	Therisa
##	12	1
##	Thomas	Thorsten
##	28	1

##	Ti	Tiago
##	1	1
##	Tibor	Tim
##	4	4
##	Tina	Tiziana
##	1	8
##	Tj	Tobias
##	1	1
##	Tom	Toma
##	1	2
##	Tommaso	Toni
##	3	1
##	Tonio	Tony
##	5	9
##	Torki	Tracy
##	3	1
##	Tracy Lee	TravelNest
##	1	3
##	Tricia	Tristan
##	1	2
##	Trude	Tufazzal
##	2	2
##	Two Pillows Boutique Hostel	TwoRoom
##	13	5
##	Tyrone	Ugne
##	1	2
##	Uli	Ulyana
##	1	1
##	Umberto	Urban MT
##	6	12
##	Urban Living	Ursula
##	12	1
##	Uwe	Vacation
##	1	5
##	Vadim	Val
##	1	2
##	Valcho	Valentina
##	3	1
##	Valentine	Valerie
##	1	2
##	Valhalla	Valkiria
##	10	1
##	Valletta	Valletta Property Rentals
##	3	4
##	Valletta Vintage	Valmore
##	6	1
##	Vanesa	Vanessa
##	30	8
##	Vanna	Vbl
##	1	7
##	Veduta Estates Limited	Venxik
##	1	1
##	Vera	Verena
##	1	3

##	Verginia	Veronica
##	2	13
##	Veronica & Anthony	Vic-Martin
##	1	1
##	Vicki	Vicky
##	2	3
##	Victoe	Victor
##	1	94
##	Victoria	Vin
##	2	3
##	Vince	Vincent
##	1	5
##	Vincenza	Vincenzo
##	1	3
##	Vincienne	Violeta
##	4	2
##	Virginie	Vittoria
##	3	2
##	Vittorio	Viviana
##	1	1
##	Vladimir	Volodymyr
##	2	1
##	Walid	Walter
##	1	3
##	Warren	Wayne
##	5	10
##	Wendy	Wesley
##	3	1
##	Wewa	Wilfred
##	1	2
##	Will	William
##	2	5
##	Willie	Wolfgang
##	1	1
##	Xamajne	Xavier
##	1	2
##	Ximena	Xon
##	7	1
##	Yan Milena	Yana
##	1	2
##	Yanika	Yasmin & Semira
##	1	1
##	Yass	Yeda
##	1	1
##	Yely	Ylenia
##	2	2
##	Yohana	Yorlin & William
##	1	2
##	Your.Rentals	Yves
##	17	1
##	Yvette	Yvonne
##	3	3
##	Za	Zack
##	1	1

```

##                               Zak                           Zee
##                               1                            3
## ZETH - English Teaching & Hosts
##                               2
##                               Zivanka
##                               2
##                               Zona
##                               1
##                               Zorica
##                               1
##                               Zuhir
##                               1
##                               1

```

```
table(datos$Tipo_habitación)
```

```

##                               Entire home/apt      Hotel room      Private room      Shared room
##                               5290                  183              2749                  318

```