



BIRMINGHAM CITY
University

Author: Atithi Shrestha

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Tutor: Rupak Koirala

Student ID: 23140734

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1 Loading Necessary Libraries

```
library(ggplot2)
library(knitr)
library(kableExtra)
```

2 Loading the Dataset

```
data <- read.csv("dubai_properties.csv")
View(data)
```

3 Data Structure

```
head(data, 5)
```

```
##                                     Address
## 1 The Gate Tower 2, The Gate Tower, Shams Gate District, Shams Abu Dhabi, Al Reem Island, Abu Dhabi
## 2                                     Water's Edge, Yas Island, Abu Dhabi
## 3                                     Al Raha Lofts, Al Raha Beach, Abu Dhabi
## 4 Marina Heights, Marina Square, Al Reem Island, Abu Dhabi
## 5                                     West Yas, Yas Island, Abu Dhabi
##      Rent Beds Baths      Type Area_in_sqft Rent_per_sqft Rent_category
## 1 124000    3     4 Apartment      1785      69.46779      Medium
## 2 140000    3     4 Apartment      1422      98.45288      Medium
## 3  99000    2     3 Apartment      1314      75.34247      Medium
## 4 220000    3     4 Penthouse      3843      57.24694       High
## 5 350000    5     7   Villa       6860      51.02041       High
##   Frequency  Furnishing  Purpose Posted_date Age_of_listing_in_days
## 1   Yearly  Unfurnished  For Rent  2024-03-07                45
## 2   Yearly  Unfurnished  For Rent  2024-03-08                44
## 3   Yearly   Furnished  For Rent  2024-03-21                31
## 4   Yearly  Unfurnished  For Rent  2024-02-24                57
## 5   Yearly  Unfurnished  For Rent  2024-02-16                65
##      Location      City Latitude Longitude
## 1 Al Reem Island Abu Dhabi 24.49360  54.40784
## 2   Yas Island Abu Dhabi 24.49402  54.60737
## 3 Al Raha Beach Abu Dhabi 24.48593  54.60094
## 4 Al Reem Island Abu Dhabi 24.49360  54.40784
## 5   Yas Island Abu Dhabi 24.49402  54.60737
```

```
tail(data, 5)
```

```
##                                     Address  Rent Beds Baths      Type
## 73738 Al Huboob 1, Al Salamah, Umm Al Quwain 14000    0    1 Apartment
## 73739      Umm Al Quwain Marina, Umm Al Quwain 14000    0    1 Apartment
## 73740      King Faisal Street, Umm Al Quwain 50000    3    4 Apartment
## 73741                Al Maqtaa, Umm Al Quwain 37000    1    2 Apartment
## 73742                Al Rass, Umm Al Quwain 11000    0    1 Apartment
```

##	Area_in_sqft	Rent_per_sqft	Rent_category	Frequency	Furnishing	Purpose
## 73738	419	33.41289	Low	Yearly	Unfurnished	For Rent
## 73739	500	28.00000	Low	Yearly	Unfurnished	For Rent
## 73740	2000	25.00000	Low	Yearly	Unfurnished	For Rent
## 73741	989	37.41153	Low	Yearly	Unfurnished	For Rent
## 73742	300	36.66667	Low	Yearly	Unfurnished	For Rent
##	Posted_date	Age_of_listing_in_days			Location	City
## 73738	2023-12-14		129		Al Salamah	Umm Al Quwain
## 73739	2023-12-14		129	Umm Al Quwain Marina	Umm Al Quwain	
## 73740	2024-01-02		110	King Faisal Street	Umm Al Quwain	
## 73741	2023-10-23		181		Al Maqtaa	Umm Al Quwain
## 73742	2024-02-12		69		Al Rass	Umm Al Quwain
##	Latitude	Longitude				
## 73738	25.49341	55.57599				
## 73739	25.52796	55.60653				
## 73740	NA	NA				
## 73741	NA	NA				
## 73742	NA	NA				