

# Table Design & Creation

## Data Analyst Program - Project 1

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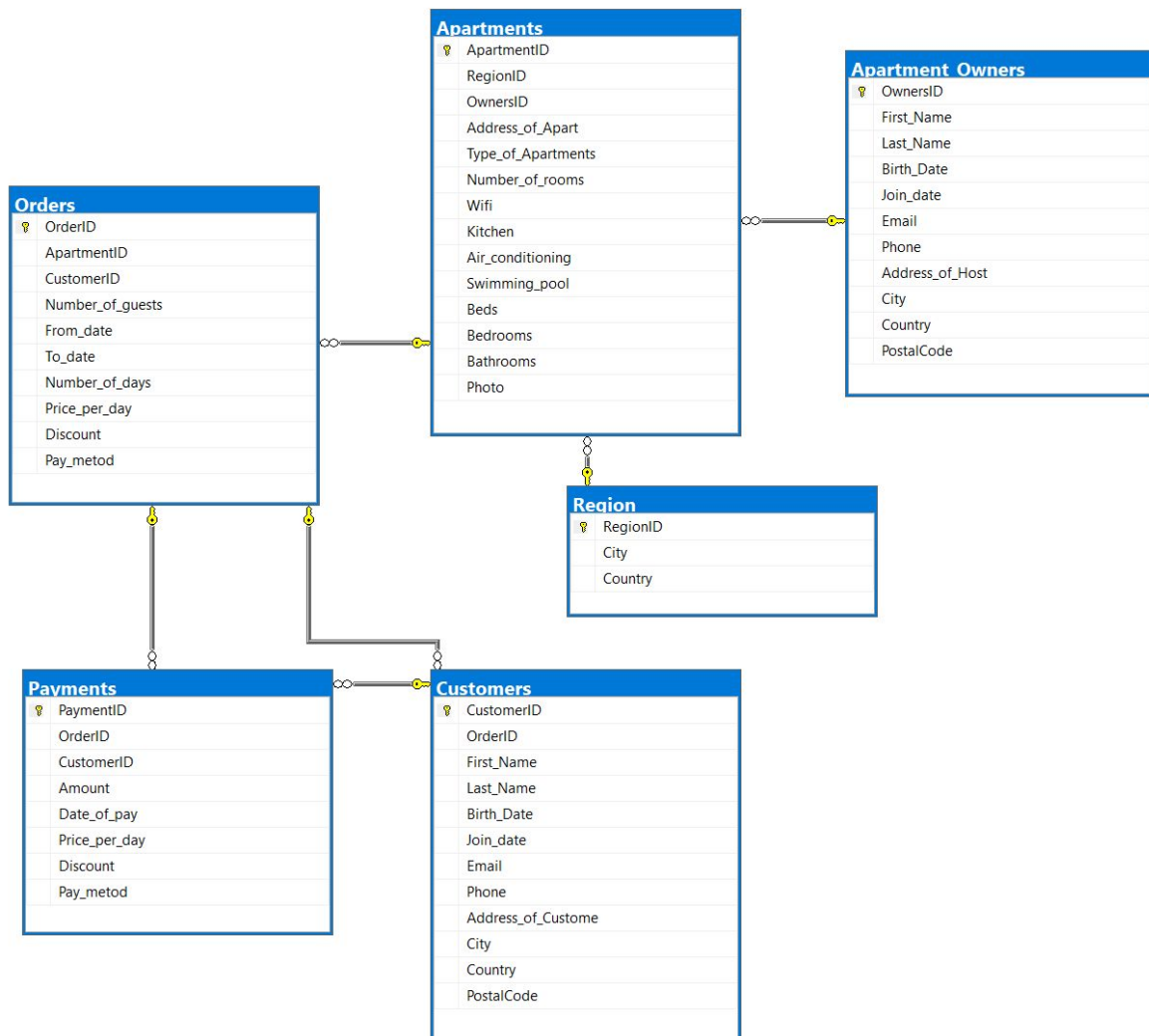
## About This Project:

The goal of the project is to create a database using Microsoft SQL - Server Management Studio v18.5 that simulates a database of a well-known company like Airbnb that operates in the field of tourism and allows people all over the world to both rent and book apartments for a short term. The project describes the important tables that enable the company to conduct a business process.

[www.airbnb.com](http://www.airbnb.com)

## ERD

Please see below the ERD of “Airbnb” database:



## Table Description

List Of Tables:

1. Apartment\_Owners
2. Region
3. Apartments
4. Orders
5. Customers
6. Payments

1. Apartment\_Owners - Table with data of apartment owners.

Column Name	Column Type	Constraint	Various
OwnersID	INT	PRIMARY KEY	IDENTITY (1,1)
First_Name	VARCHAR(25)	NOT NULL	
Last_Name	VARCHAR(25)	NOT NULL	
Birth_Date	DATE		
Join_date	DATETIME		
Email	VARCHAR(50)	CHECK Email LIKE '%@%'	
Phone	VARCHAR(25)	UNIQUE	
Address_of_Host	VARCHAR(50)	UNIQUE	
City	VARCHAR(15)		
Country	VARCHAR(15)		
PostalCode	NVARCHAR(10)		

2. Region - A table containing a list of regions, countries, and cities in which a company operates.

Column Name	Column Type	Constraint	Various
RegionID	INT	PRIMARY KEY	IDENTITY (1,1)
City	VARCHAR(25)	NOT NULL	
Country	VARCHAR(25)	NOT NULL	

3. Apartments - A table containing details about the apartments.

Column Name	Column Type	Constraint	Various
ApartmentID	INT	PRIMARY KEY	IDENTITY (1,1)
RegionID	INT	FOREIGN KEY	
OwnersID	INT	FOREIGN KEY	
Address_of_Apart	VARCHAR(50)	UNIQUE	
Type_of_Apartments	VARCHAR(25)		
Number_of_rooms	INT		
Wifi	VARCHAR(3)		
Kitchen	VARCHAR(25)		
Air_conditioning	VARCHAR(3)		
Swimming_pool	VARCHAR(3)		
Beds	INT		
Bedrooms	INT		
Photo	IMAGE		

4. Orders - Table with the details of orders.

Column Name	Column Type	Constraint	Various
OrderID	INT	PRIMARY KEY	IDENTITY (1,1)
ApartmentID	INT	FOREIGN KEY	
CustomerID	INT		
Number_of_guests	INT	CHECK(Number_of_guests > 0)	
From_date	DATE	CHECK(datediff(dd,From_date,To_date)>1)	
To_date	DATE		
Number_of_days	INT		
Price_per_day	MONEY	CHECK(Price_per_day > 0)	
Discount	INT		
Pay_metod	VARCHAR(25)	NOT NULL	

5. Customers - Table with customers' details.

Column Name	Column Type	Constraint	Various
CustomerID	INT	PRIMARY KEY	IDENTITY (1,1)
OrderID	INT	FOREIGN KEY	
First_Name	VARCHAR(25)	NOT NULL	
Last_Name	VARCHAR(25)	NOT NULL	
Birth_Date	DATE		
Join_date	DATETIME		
Email	VARCHAR(50)	CHECK(Email LIKE '%@%')	
Phone	VARCHAR(25)		
Address_of_Customer	VARCHAR(50)	UNIQUE	
City	VARCHAR(25)		
Country	VARCHAR(25)		
PostalCode	INT		

6. Payments - Table with the details of payments.

Column Name	Column Type	Constraint	Various
PaymentID	INT	PRIMARY KEY	IDENTITY (1,1)
OrderID	INT	FOREIGN KEY	
CustomerID	INT	FOREIGN KEY	
Amount	MONEY	CHECK(Amount > 0)	
Date_of_pay	DATE		
Price_per_day	MONEY		
Discount	INT		
Pay_metod	VARCHAR(25)	NOT NULL	

## Script

The full script of database creation and population script in a separate file.