```
1. Create table with column name
           Create table realestate.property tbl
           SINo
                   int,
           Property_Name
                                  varchar(255),
           Property_Type
                                  varchar(255),
           Address
                          varchar(255),
           Landmarks
                          varchar(255),
           City
                   varchar(255),
           State_code
                          varchar(255),
                          varchar(255),
           Country
           Carpet_area
                          int,
           Builtup_Area
                          int,
           Floor
                   int,
           Beds
                   int,
           Bathroom
                          int,
           Balcony
                           int,
           BHK_Type
                           int,
           Status varchar(255),
           Furnished_status
                                  varchar(255),
           Price_per_square_feet int,
           Year_Built
                          int,
           Transaction_type
                                  varchar(255),
           Facing varchar(255),
           Car_Parking
                          varchar(255),
           Type_of_ownership
                                  varchar(255),
           Booking_amount
                                  int,
           Buy total price
                                   int
           )
2. Load data from text file
           LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL 8.0/Uploads/magicbricks.txt'
           INTO TABLE realestate.property tbl
           FIELDS TERMINATED BY '\t'
           ENCLOSED BY ""
           LINES TERMINATED BY '\n'
           IGNORE 1 ROWS;
3. Create table1 table
           Create table Table1 as
           SELECT SLNo, BHK_Type, Property_Name, Property_Type, Beds, Bathroom, Balcony,
           Address, City, State code, Country, Landmarks
           FROM realestate.property_tbl;
4. Create table 2table
           Create table Table2 as
           SELECT SLNo, Carpet_area, Status, Floor, Transaction_type, Year_Built,
           Price_per_square_feet
            FROM realestate.property_tbl;
```

5. Create table3 table

Create table Table3 as SELECT SLNo, Furnished_status, Facing, Car_Parking, Type_of_ownership, Booking_amount, Buy_total_price FROM realestate.property_tbl;

6. SQL Code for Table1

- a. Retrieve properties with balconies, sorted by the number of bedrooms in descending order.
 - SELECT * FROM realestate.property_tbl WHERE Balcony > 0 ORDER BY Beds DESC;
- Find the top 5 cities with the highest average number of bedrooms per property.
 SELECT City, AVG(Beds) AS Avg_Beds FROM realestate.property_tbl GROUP BY City
 ORDER BY Avg_Beds DESC LIMIT 5;
- c. Count the number of properties in each city.
 SELECT City, COUNT(*) AS Property_Count FROM realestate.property_tbl GROUP BY City;
- d. Retrieve all properties with at least 3 bedrooms and 2 bathrooms.SELECT * FROM realestate.property_tbl WHERE Beds >= 3 AND Bathroom >= 2;
- e. Find properties in a specific state with a certain landmark. (take state and landmark on your own).
 - SELECT * FROM realestate.property_tbl WHERE Landmarks is Not Null;

7. SQL Code for Table2

- a. Calculate the average price per square foot for properties built before 2010.
 SELECT AVG(Price_per_square_feet) AS Avg_Price_Per_SqFt FROM table2 WHERE Year Built < 2010;
- Find the total number of properties on each floor.
 SELECT Floor, COUNT(*) AS Total_Properties FROM table2 GROUP BY Floor;
- c. Retrieve properties with a carpet area greater than 1000 square feet and a status of 'Under Construction'.
 - SELECT * FROM table2 WHERE Carpet_area > 1000 AND Status = 'Under Construction';
- d. Calculate the average price per square foot for each transaction type.
 SELECT Transaction_type, AVG(Price_per_square_feet) AS Avg_Price_Per_SqFt FROM table2 GROUP BY Transaction_type;
- e. Find the properties with the highest price per square foot, sorted in descending order.
 - SELECT * FROM table2 ORDER BY Price per square feet DESC;

8. SQL Code for Table3

- a. Retrieve all properties with a furnished status of 'Fully Furnished' and a facing direction of 'East'.
 - SELECT * FROM table3 WHERE Furnished status = 'Furnished' AND Facing = 'East';
- b. Calculate the average booking amount for properties with and without car parking: SELECT Car_Parking, AVG(Booking_amount) AS Avg_Booking_Amount FROM table3 GROUP BY Car_Parking ORDER BY Car_Parking;
- Find the total price of properties with different types of ownership.
 SELECT Type_of_ownership, SUM(Buy_total_price) AS Total_Price FROM table3
 GROUP BY Type_of_ownership;
- d. Retrieve properties with a booking amount greater than 50000 and a furnished status of 'Semi Furnished'.

SELECT * FROM table3 WHERE Booking_amount > 50000 AND Furnished_status = 'Semi-Furnished';

e. Find the property with the highest booking amount.

SELECT * FROM table3 ORDER BY Booking_amount DESC LIMIT 1;

9. Join SQL Queries using all 3 tables

a. Retrieve properties from table1 that have a higher price per square foot than the average price per square foot in table2.

SELECT t1.*

FROM table1 t1

JOIN table2 t2 ON t1.SLNo = t2.SLNo

WHERE t2.Price_per_square_feet > (SELECT AVG(Price_per_square_feet) FROM table2);

b. Find the properties in table1 that are located in cities where the average price per square foot in table2 is higher than the overall average price per square foot.

SELECT t1.City

FROM table1 t1

JOIN table 2 t2 ON t1.SLNo = t2.SLNo

GROUP BY t1.City

HAVING AVG(t2.Price_per_square_feet) > (SELECT AVG(Price_per_square_feet) FROM table2);

c. Retrieve properties from table1 with a certain landmark that have a lower price per square foot than the average price per square foot for properties with the same landmark in table2. (Choose landmark on our own)

SELECT t1.*

FROM table1 t1

JOIN table2 t2 ON t1.SLNo = t2.SLNo

WHERE t1.Landmarks is not null AND t2.Price_per_square_feet <

(SELECT AVG(Price per square feet) FROM table2 WHERE Landmarks is not null);

d. Retrieve properties from table2 with a price per square foot higher than the average booking amount in table3

SELECT t2.*

FROM table2 t2

WHERE t2.Price_per_square_feet > (SELECT AVG(Booking_amount) FROM table3);

e. Count the number of properties in table2 with more bedrooms than the maximum number of bedrooms in table3.

SELECT COUNT(*)

FROM table2 t2

WHERE t2.SLNo IN

(SELECT t1.SLNo FROM table1 t1 WHERE t1.Beds >

(SELECT MAX(Beds) FROM table3));

f. Find the cities where the average booking amount in table3 is higher than the overall average booking amount, and retrieve properties from table1 located in those cities.

SELECT t1.City FROM table1 t1

JOIN table3 t3 ON t1.SLNo = t3.SLNo

GROUP BY t1.City
HAVING AVG(t3.Booking_amount) >
(SELECT AVG(Booking_amount) FROM table3);

g. Retrieve properties from table1 with a furnished status of 'Unfurnished' and a facing direction that does not exist in table3.

SELECT t1.*
FROM table1 t1
JOIN table3 t3 ON t1.SLNo = t3.SLNo
WHERE t3.Furnished_status = 'Unfurnished'
AND t3.Facing = ";