

Create table

1)

```
SELECT * FROM capstone.table1;
```

```
CREATE TABLE table1 (  
    Sno INT,  
    Address VARCHAR(255),  
    City VARCHAR(255),  
    Rental_Price int,  
    deposit DECIMAL,  
);
```

2)

```
CREATE TABLE table2 (  
    Sno INT,  
    no_of_bed INT,  
    no_of_bathroom INT,  
    Area VARCHAR(255),  
    pets_allowed BOOLEAN  
);
```

3)

```
CREATE TABLE table1 (  
    Sno INT,  
    Washer_Dryer BOOLEAN,  
    AC BOOLEAN,  
    Parking BOOLEAN,  
    Fireplace BOOLEAN,
```

```
Dishwasher BOOLEAN,  
Hardwood_floors BOOLEAN,  
Roofdeck BOOLEAN,  
Storage BOOLEAN  
);
```

TABLE 1

1) Write a SQL query to order records by a rental price column in ascending order.

```
SELECT *  
FROM your_table  
ORDER BY rental_price ASC;
```

2) Write a SQL query to select unique combinations of City and State with their average Rental Price

```
SELECT City, AVG(Rental_Price) AS Average_Rental_Price  
FROM your_table  
GROUP BY City;
```

3) Write a SQL query to select the top 5 highest deposit amounts with corresponding Address and City

```
SELECT Address, City, Maintenance_Amount  
FROM your_table  
ORDER BY Maintenance_Amount DESC  
LIMIT 5;
```

4) Write a SQL query to select the count of records for each Country along with the total deposit amount

```
SELECT City, COUNT(*) AS Record_Count, SUM(Maintenance_Amount) AS  
Total_Maintenance_Amount
```

```
FROM your_table
```

```
GROUP BY City;
```

5) Write a SQL query to select records with a Rental Price higher than the average Rental Price across all records

```
SELECT *
```

```
FROM your_table
```

```
WHERE Rental_Price > (SELECT AVG(Rental_Price) FROM your_table);
```

TABLE 2

1) Write a SQL query to select the average area for each number of bedrooms.

```
SELECT No_of_bed,
```

```
        AVG(Area) AS Average_Area
```

```
FROM your_table
```

```
GROUP BY No_of_bed;
```

2) Write a SQL query to select records with more than one bathroom and pets allowed

```
SELECT *
```

```
FROM your_table
```

```
WHERE No_of_bathroom > 1;
```

3) Write a SQL query to select the top 3 records with the highest total area (bedrooms + bathrooms)

```
SELECT *,
```

```
        (No_of_bed * Bedroom_Area + No_of_bathroom * Bathroom_Area) AS Total_Area
```

```
FROM your_table
```

```
ORDER BY Total_Area DESC
```

```
LIMIT 3;
```

4) Write a SQL query to select the count of records for each combination of bedrooms and bathrooms

```
SELECT No_of_bed, No_of_bathroom, COUNT(*) AS Record_Count  
FROM your_table  
GROUP BY No_of_bed, No_of_bathroom;
```

5) Write a SQL query to select records with the largest area where pets are allowed

```
SELECT *  
FROM your_table  
WHERE Pets_allowed = 'Yes'  
ORDER BY Area DESC  
LIMIT 1;
```

TABLE 3

1) Write a SQL query to Select records where both Washer/Dryer and AC are available, and order by Sno.

```
SELECT *  
FROM your_table  
WHERE Furnishing = 'available'  
ORDER BY Sno;
```

2) Write a SQL query to Select records where Hardwood floors are available but neither Roofdeck nor Storage is present, and order by Sno in descending order

```
SELECT *  
FROM your_table  
WHERE Total_Floors IS NOT NULL  
ORDER BY Sno DESC;
```

3) Write a SQL query to Select records where at least four amenities (AC, Parking, Dishwasher, Fireplace) are available, and order by Sno

```
SELECT *  
FROM your_table
```

```
WHERE AC = 'available'

AND Parking = 'available'

AND Dishwasher = 'available'

AND Fireplace = 'available'

ORDER BY Sno;
```

4) Write a SQL query to Select records where neither Roofdeck nor Storage is available, and include the count of such records.

```
SELECT COUNT(*) AS Record_Count

FROM your_table

WHERE Furnishing != 'available'

AND Furnishing != 'Not available';
```

5) Write a SQL query to Select records with Parking and either Fireplace or Dishwasher, and include the count of records for each condition

```
SELECT

SUM(CASE WHEN Parking = 'available' THEN 1 ELSE 0 END) AS Parking_Count,

SUM(CASE WHEN Fireplace = 'available' THEN 1 ELSE 0 END) AS Fireplace_Count,

SUM(CASE WHEN Dishwasher = 'available' THEN 1 ELSE 0 END) AS Dishwasher_Count

FROM

your_table

WHERE

Parking = 'available'

AND (Fireplace = 'available' OR Dishwasher = 'available');
```

Join SQL Queries using all 3 tables

1) Write a SQL subquery to find records with more than the average area and related details using table 1 and table 2

```
SELECT t1.*, t2.Area

FROM Table1 t1

JOIN Table2 t2 ON t1.Property_ID = t2.Property_ID

WHERE t2.Area > (SELECT AVG(Area) FROM Table2);
```

2) Write a subquery to find records in table1 based on conditions pets allowed is 'YES' and no of bed is greater than 3 in table2

```
SELECT *  
FROM Table1  
WHERE Property_ID IN (  
    SELECT t2.Property_ID  
    FROM Table2 t2  
    WHERE t2.Pets_allowed = 'YES'  
    AND t2.No_of_bed > 3  
);
```

3) Write a SQL subquery using both tables (2 and 3) to find records in Table2 with more than 2 bedrooms and related details from Table3 where AC is present

```
SELECT t2.*, t3.*  
FROM Table2 t2  
JOIN Table3 t3 ON t2.Property_ID = t3.Property_ID  
WHERE t2.No_of_bed > 2  
AND t3.AC = 'present';
```

4) Write a sql subquery to find records in Table2 with pets allowed and a Dishwasher, and include related details from Table3

```
SELECT t3.*  
FROM Table3 t3  
JOIN (  
    SELECT t2.Property_ID  
    FROM Table2 t2  
    WHERE t2.Pets_allowed = 'Yes'  
    AND t2.Dishwasher = 'available'  
) subquery  
ON t3.Property_ID = subquery.Property_ID;
```

5) Write a subquery to find records in Table2 with the highest area and related details from Table3 where roofdeck is present.

```
SELECT t3.*  
  
FROM Table3 t3  
  
JOIN (  
    SELECT t2.Property_ID  
    FROM Table2 t2  
    WHERE t2.Area = (SELECT MAX(Area) FROM Table2)  
    AND t2.Roofdeck = 'present'  
) subquery  
ON t3.Property_ID = subquery.Property_ID;
```

6) Write a sql Inner Join to combine information from table1 and table 2

```
SELECT t1.*, t2.*  
  
FROM Table1 t1  
  
INNER JOIN Table2 t2 ON t1.Property_ID = t2.Property_ID;
```

7) Write SQL Subquery to find records in table1 with pets allowed and a Washer/Dryer, and include details from table2 and table3

```
SELECT t2.*, t3.*  
  
FROM Table2 t2  
  
JOIN Table3 t3 ON t2.Property_ID = t3.Property_ID  
  
WHERE t2.Property_ID IN (  
    SELECT t1.Property_ID  
    FROM Table1 t1  
    WHERE t1.Pets_allowed = 'Yes'  
    AND t1.Washer_Dryer = 'available'  
)
```

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Information

Table: capstone_data

Columns:

S.No int

Rental Price text

Address text

City text

Bedrooms int

Bathrooms int

Total floors int

Car parking text

Bachelors allowed text

Area int

table1

capstone_data titanic_train capstone_data

Limit to 10 rows

```
1 SELECT * FROM capstone.capstone_data;
2 CREATE TABLE table1 (
3   Sno INT,
4   Address VARCHAR(255),
5   City VARCHAR(255),
6   Rental_Price int,capstone_data
7   Deposit DECIMAL,
8 )
9
```

Result Grid

Filter Rows

Exports

Wrap Cell Contents

Fetch rows

S.No	Rental Price	Address	City	Bedrooms	Bathrooms	Total floors	Car parking	Bachelors allowed	Area	Furnishing	Type	Maintenance
1	15,000	House near chenikutom 15 thousand	Kerala	3	3	2	2	No	2000	Furnished	Houses & Villas	200
2	25,000	Beautiful house for rent(families preferred)	Kerala	3	3	2	Latharivas	No	2500	Semi-Furnished	Houses & Villas	1
3	35,000	Kudappanakunnu mukkoilal Nalachira	Kerala	4	4+	2	2	No	2500	Furnished	Houses & Villas	2500
4	17,000	for rent ground floor	Kerala	2	2	0	1	No	2000	Semi-Furnished	Houses & Villas	0
5	10,00,000	House lease kureeputha	Kerala	3	3	2	1	No	2000	Unfurnished	Houses & Villas	100000

capstone_data 1

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	08:47:24	SELECT * FROM capstone.capstone_data LIMIT 0, 10	10 row(s) returned	0.016 sec / 0.000 sec
2	08:49:08	SELECT * FROM capstone.capstone_data LIMIT 0, 10	10 row(s) returned	0.000 sec / 0.000 sec

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