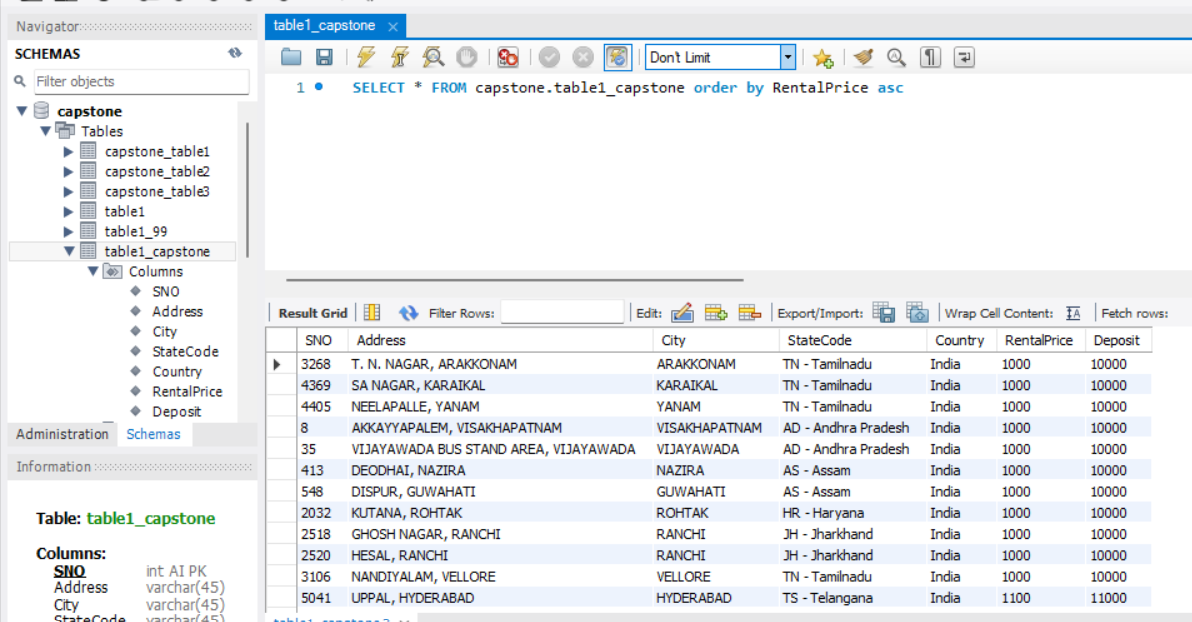
**PHASE – 2:**

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

**SELECT \* FROM capstone.table1\_capstone order by RentalPrice asc**

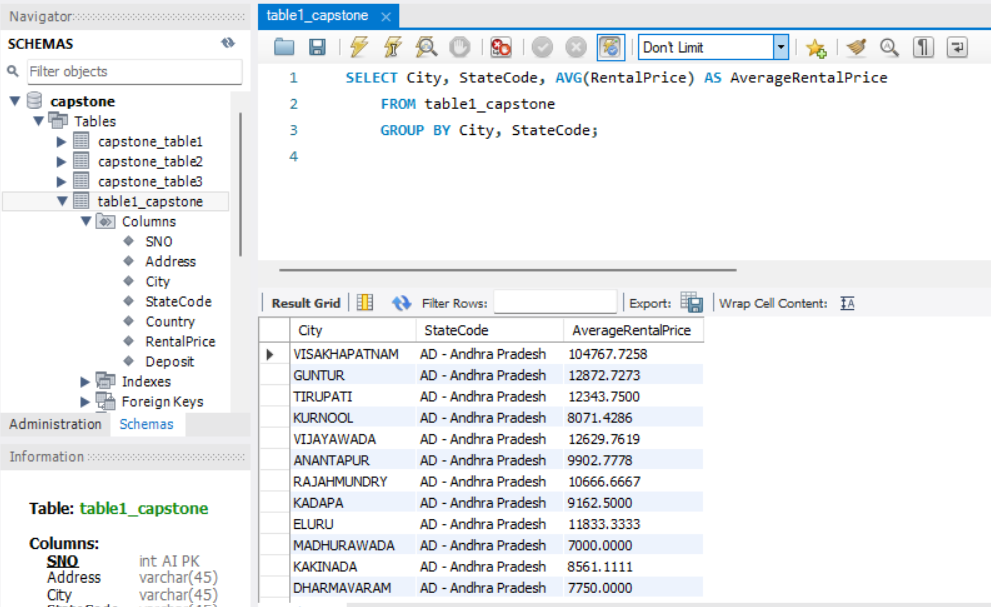


2) Write a SQL query to select unique combinations of City and State with their average Rental Price.

SELECT City, StateCode, AVG(RentalPrice) AS AverageRentalPrice

FROM table1\_capstone

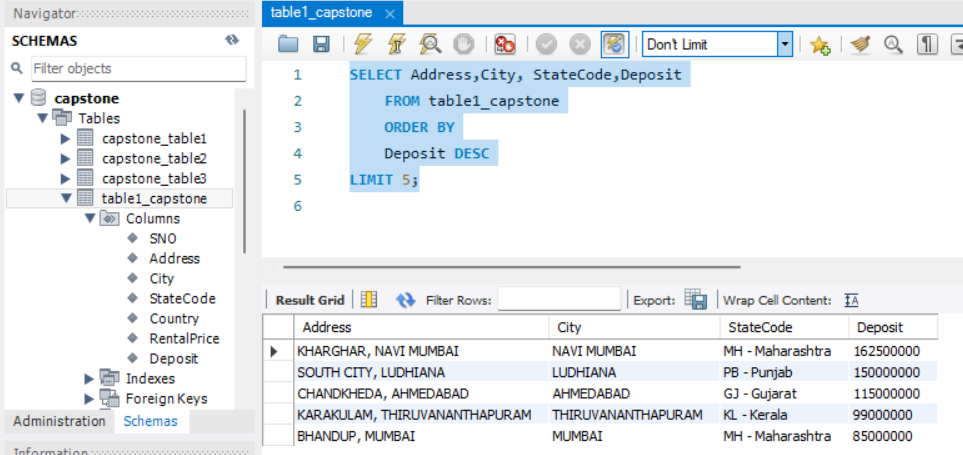
GROUP BY City, StateCode;



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

**SELECT Address, City, StateCode,Deposit FROM table1\_capstone ORDER BY Deposit DESC**

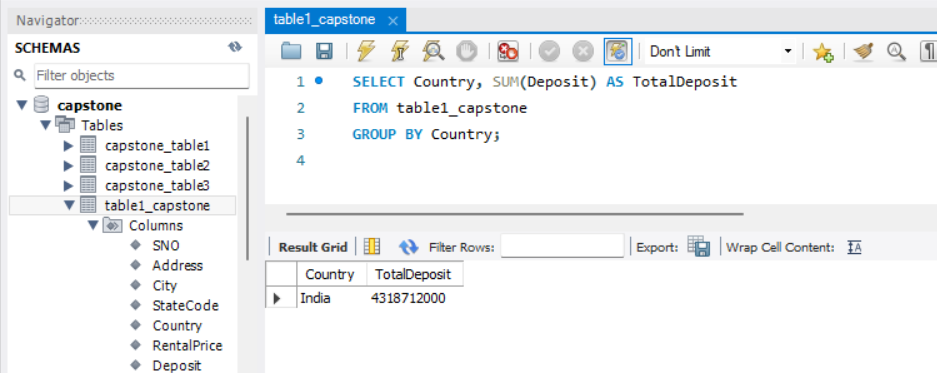
**LIMIT 5;**

****

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

**SELECT Country, SUM(Deposit) AS TotalDeposit**

**FROM table1\_capstone**

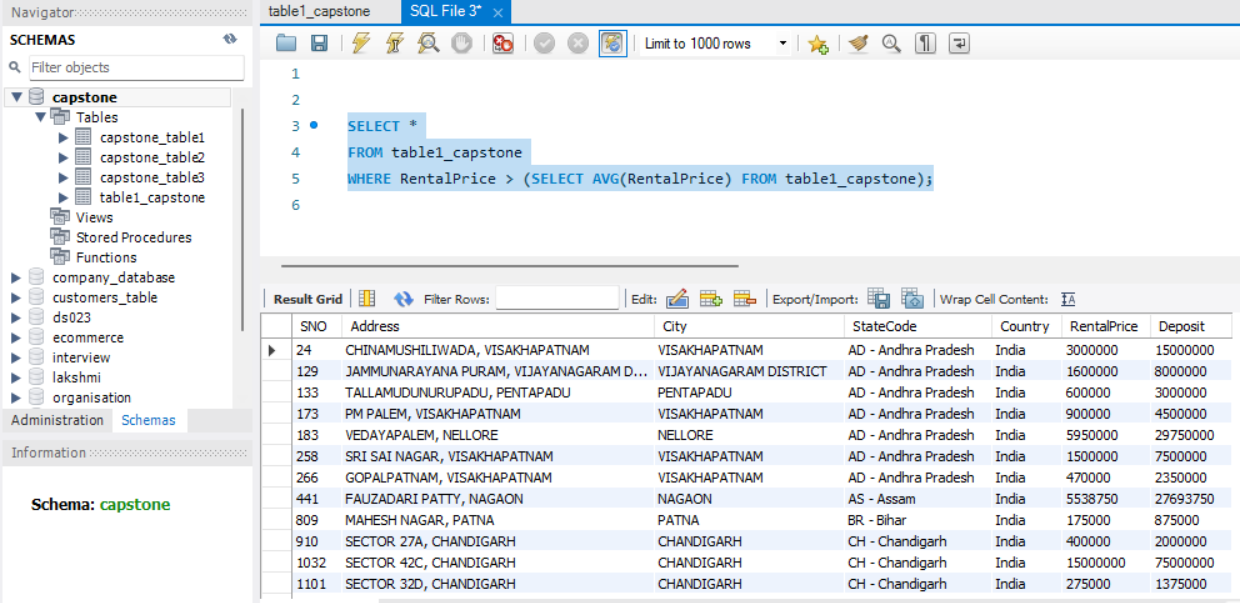
**GROUP BY Country;**

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

**SELECT \***

**FROM table1\_capstone**

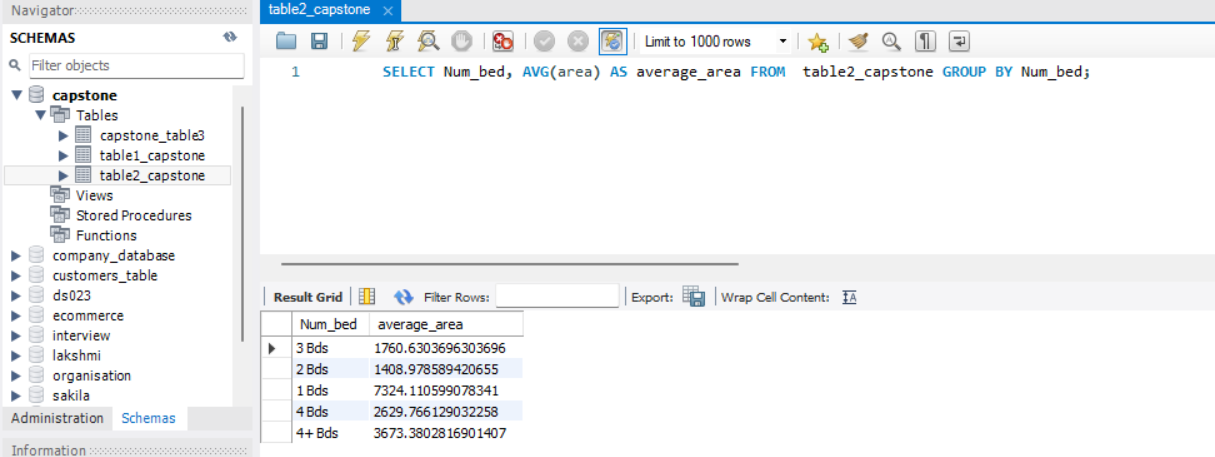
**WHERE RentalPrice > (SELECT AVG(RentalPrice) FROM table1\_capstone);**



**Table2**

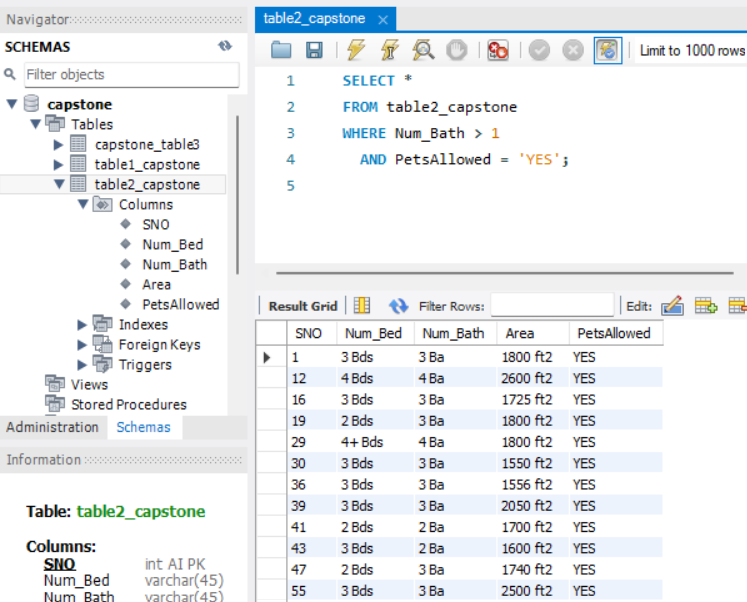
1) Write a SQL query to select the average area for each number of bedrooms.

**SELECT Num\_bed, AVG(area) AS average\_area FROM table2\_capstone GROUP BY Num\_bed;**



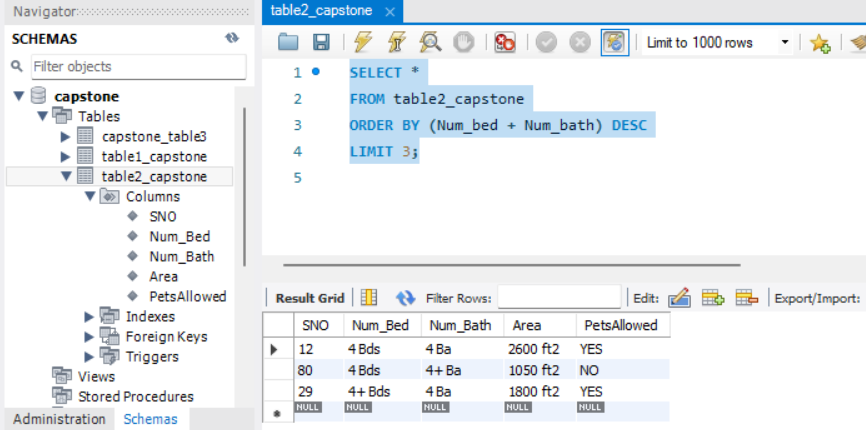
2) Write a SQL query to select records with more than one bathroom and pets allowed.

**SELECT \* FROM table2\_capstone WHERE Num\_Bath > 1 AND PetsAllowed = 'YES';**



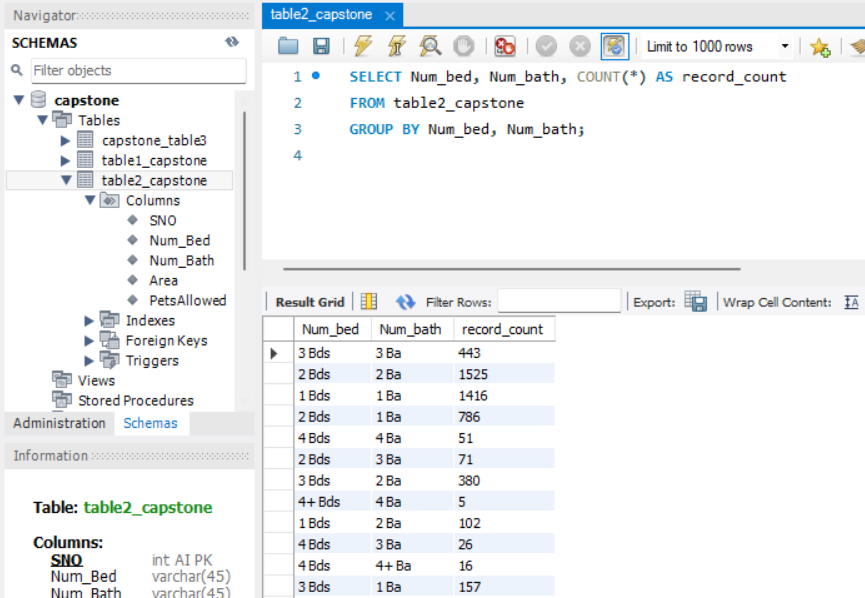
3) Write a SQL query to select the top 3 records with the highest total area (bedrooms + bathrooms).

**SELECT \* FROM table2\_capstone ORDER BY (Num\_bed + Num\_bath) DESC LIMIT 3;**



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

**SELECT Num\_bed, Num\_bath, COUNT(\*) AS record\_count FROM table2\_capstone GROUP BY Num\_bed, Num\_bath;**

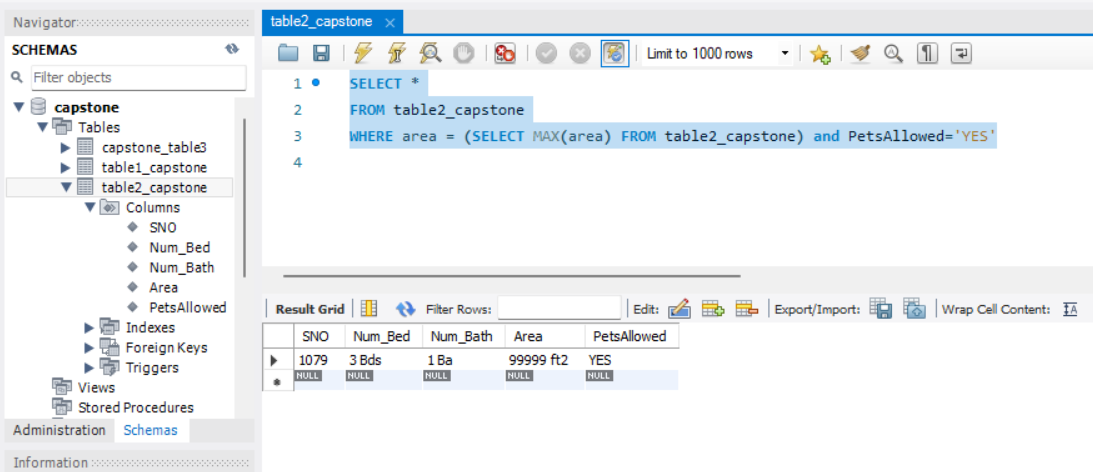


5) Write a SQL query to select records with the largest area where pets are allowed .

**SELECT \***

**FROM table2\_capstone**

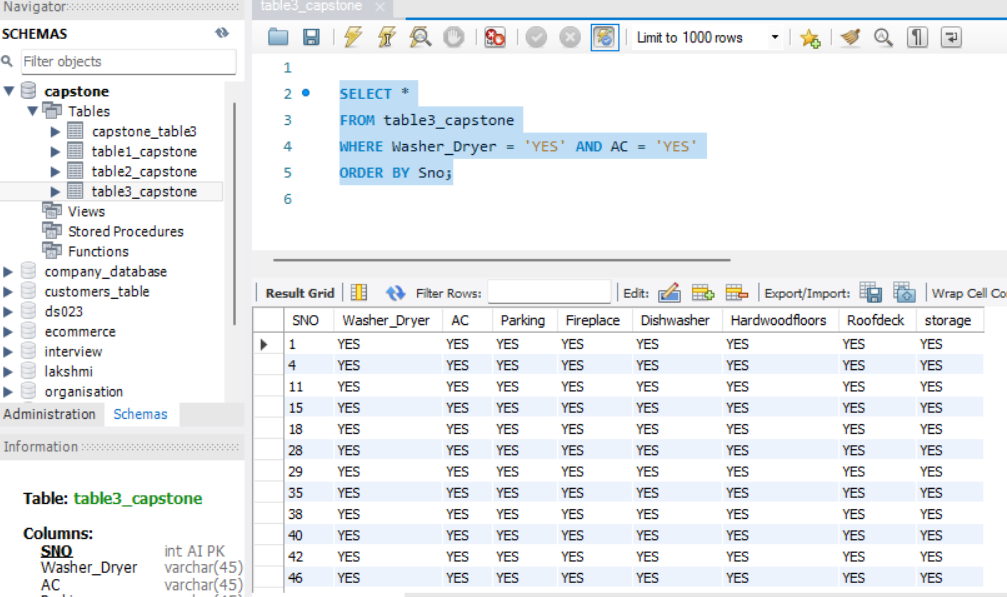
**WHERE area = (SELECT MAX(area) FROM table2\_capstone) and PetsAllowed='YES'**



**Table3**

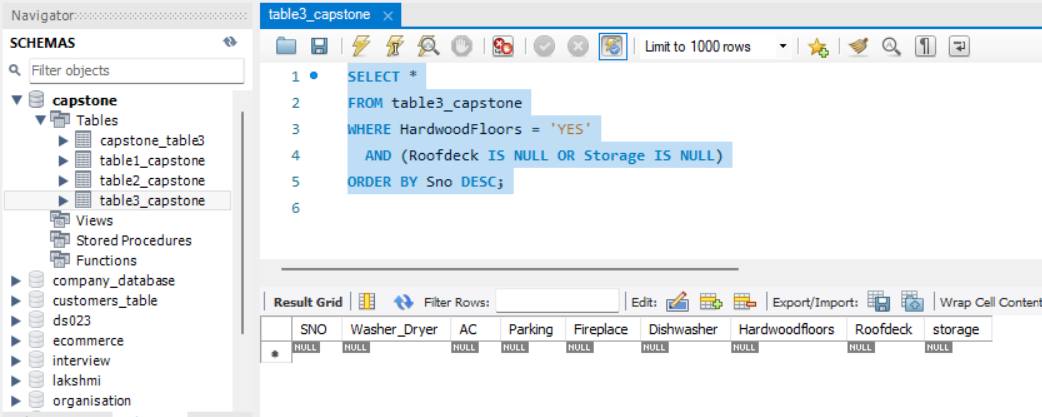
1) Write a SQL query to Select records where both Washer/Dryer and AC are available, and order by Sno.

SELECT \* FROM table3\_capstone WHERE Washer\_Dryer = 'YES' AND AC = 'YES' ORDER BY Sno;



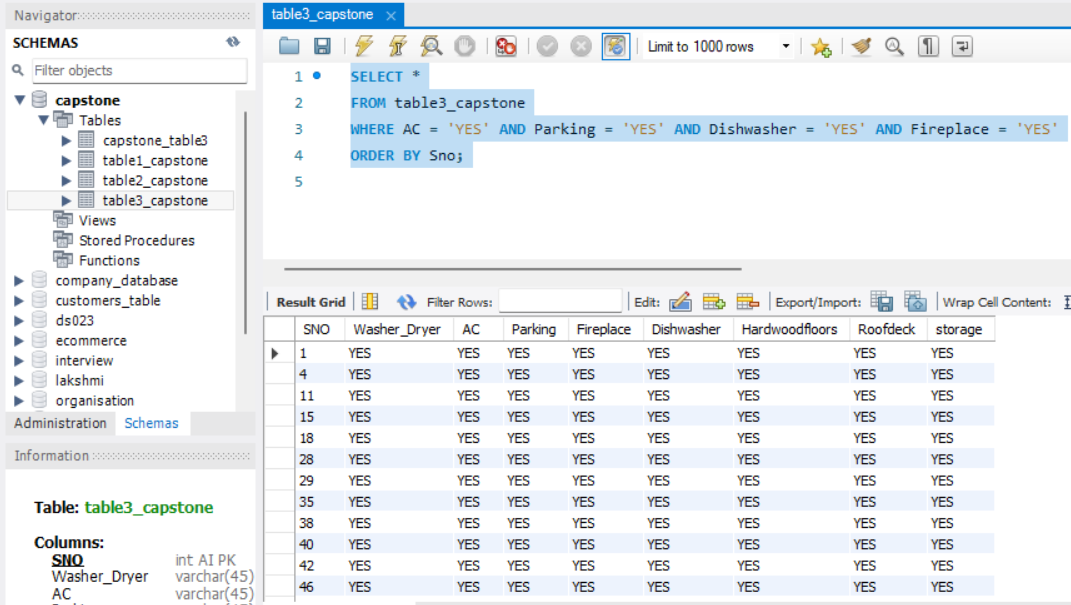
2) Write a SQL query to Select records where Hardwood floors are available but neither Roofdeck nor Storage is present, and order by Sno in descending order.

**SELECT \* FROM table3\_capstone WHERE HardwoodFloors = 'YES' AND (Roofdeck IS NULL OR Storage IS NULL) ORDER BY Sno DESC;**



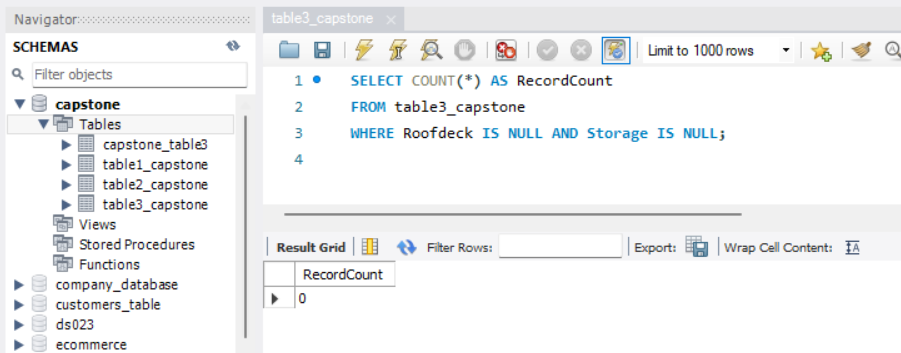
3) Write a SQL query to Select records where at least four amenities (AC, Parking, Dishwasher, Fireplace) are available, and order by Sno .

**SELECT \* FROM table3\_capstone WHERE AC = 'YES' AND Parking = 'YES' AND Dishwasher = 'YES' AND Fireplace = 'YES' 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 RecordCount FROM table3\_capstone WHERE Roofdeck IS NULL AND Storage IS NULL;**



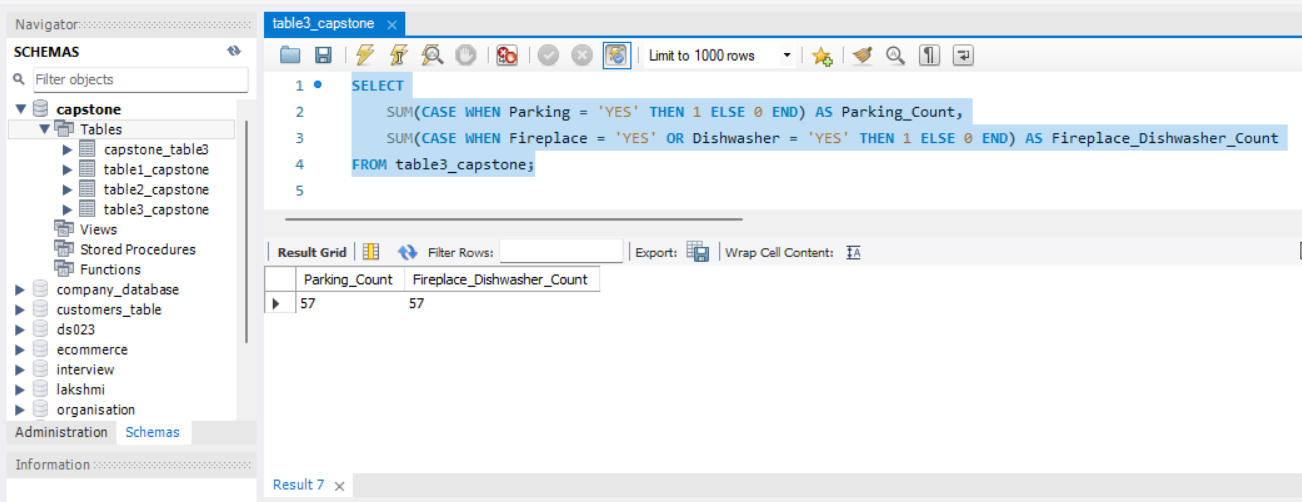
5) Write a SQL query to Select records with Parking and either Fireplace or Dishwasher, and include the count of records for each condition.

**SELECT**

**SUM(CASE WHEN Parking = 'YES' THEN 1 ELSE 0 END) AS Parking\_Count,**

**SUM(CASE WHEN Fireplace = 'YES' OR Dishwasher = 'YES' THEN 1 ELSE 0 END) AS Fireplace\_Dishwasher\_Count**

**FROM table3\_capstone;**

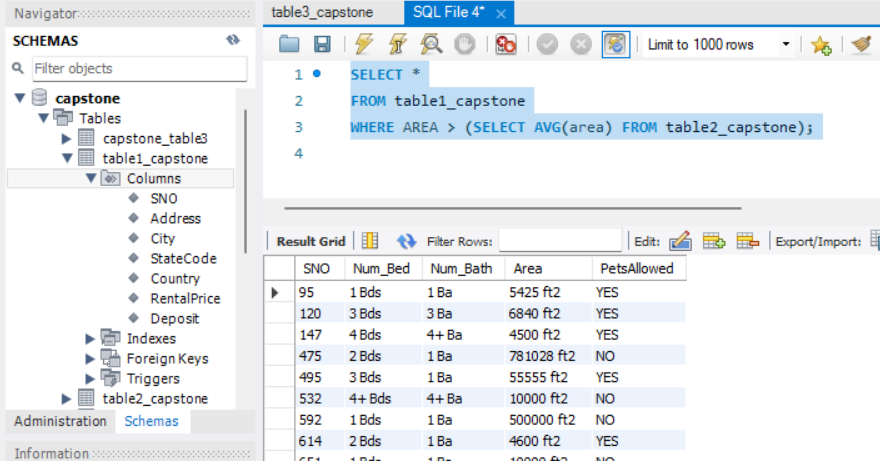


**7 Join SQL Queries using all 3 tables**

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

SELECT \* FROM table1\_capstone

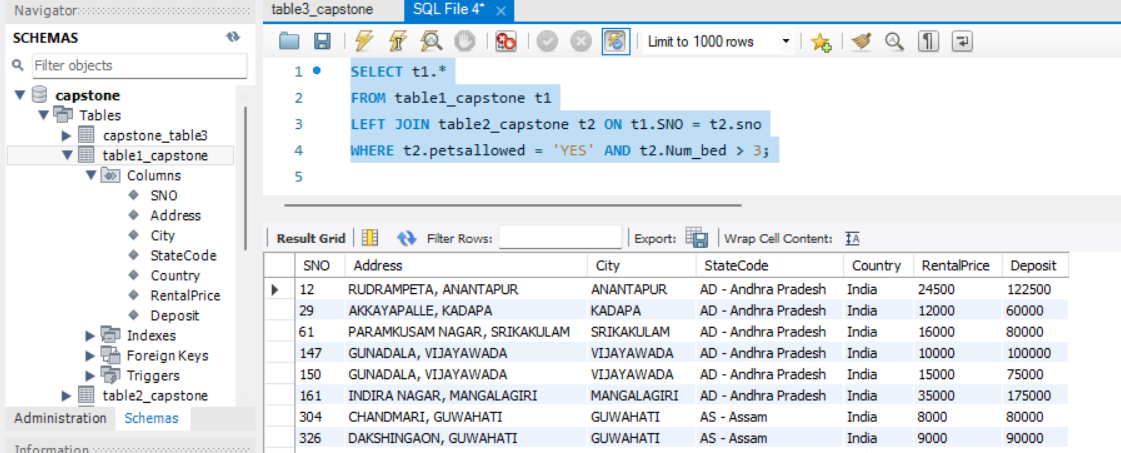
WHERE AREA > (SELECT AVG(area) FROM table2\_capstone);



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.

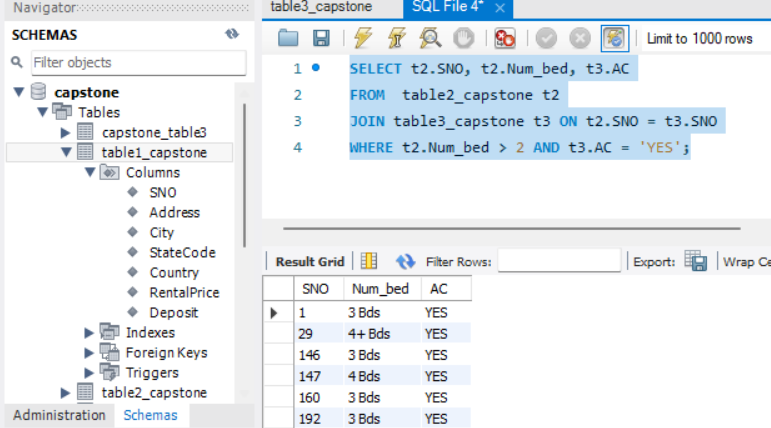
SELECT t1.\* FROM table1\_capstone t1 LEFT JOIN table2\_capstone t2 ON t1.SNO = t2.sno

WHERE t2.petsallowed = 'YES' AND t2.Num\_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.SNO, t2.Num\_bed, t3.AC FROM table2\_capstone t2 JOIN table3\_capstone t3 ON t2.SNO = t3.SNO WHERE t2.Num\_bed > 2 AND t3.AC = 'YES';**



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

SELECT t2.SNO, t2.Num\_bed, t3.AC

FROM table2\_capstone t2

JOIN table3\_capstone t3 ON t2.SNO = t3.SNO

WHERE t2.Num\_bed > 2 AND t3.AC = 'YES';

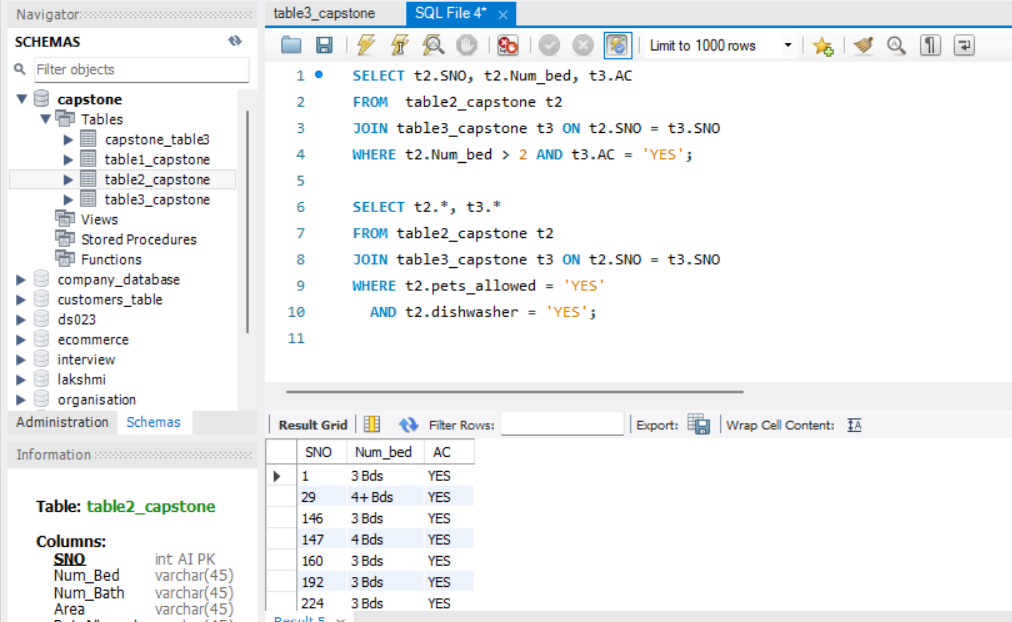
SELECT t2.\*, t3.\*

FROM table2\_capstone t2

JOIN table3\_capstone t3 ON t2.SNO = t3.SNO

WHERE t2.pets\_allowed = 'YES'

AND t2.dishwasher = 'YES';



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

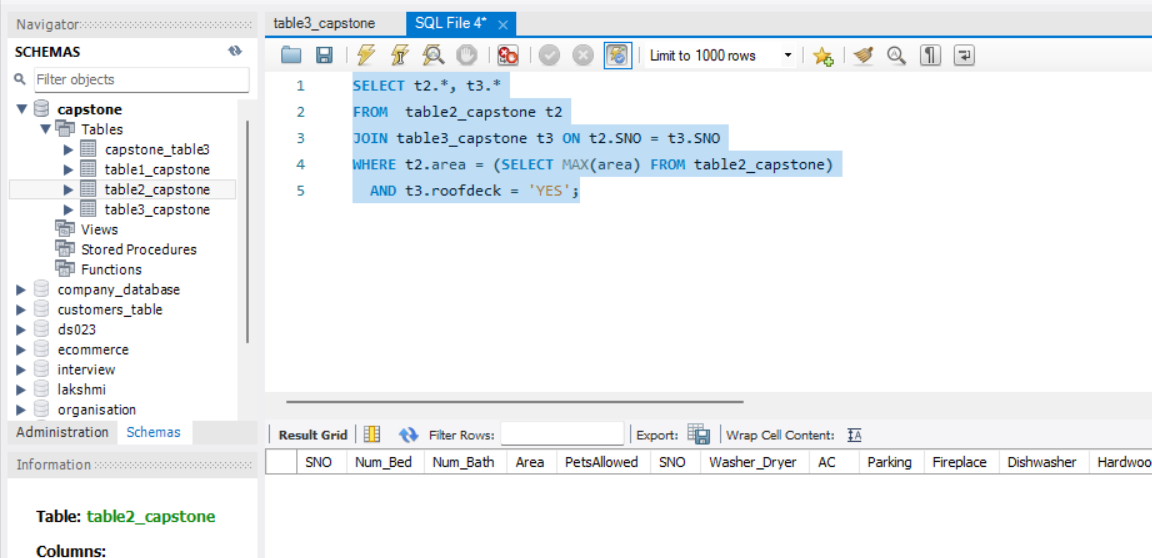
**SELECT t2.\*, t3.\***

**FROM table2\_capstone t2**

**JOIN table3\_capstone t3 ON t2.SNO = t3.SNO**

**WHERE t2.area = (SELECT MAX(area) FROM table2\_capstone)**

**AND t3.roofdeck = 'YES';**



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

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