

DBMS SKILL-5

INLAB

- 1) Create tables with the required constraints for the given case study
- 2) Insert 10 records into the created tables

MySQL Workbench Screenshot 1:

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema `practical5` with tables `advertisment`, `branch`, `owner`, `property`, `rental_agreement`, `staff`, and `viewing`.
- SQL Editor:** Contains the following SQL code to create the `STAFF` table and insert 10 records:


```

CREATE TABLE STAFF(STAFF_NO INT,NAME VARCHAR(25),SALARY INT,CITY VARCHAR(25),STATE VARCHAR(25),PHONE BIGINT);
INSERT INTO STAFF VALUES('50012','Surya',45000,'Hyderabad','Telangana',6074331464,'sj@gmail.com');
INSERT INTO STAFF VALUES('50013','raju',50000,'Banglore','Karnataka',6158984565,'raju@yahoo.co.in');
INSERT INTO STAFF VALUES('50014','virat',55000,'Vijayawada','Andhra Pradesh',6243637666,'v@yahoo.com');
INSERT INTO STAFF VALUES('50015','laya',60000,'Chennai','Tamil nadu',6328290767,'pooja@tcs.com');
INSERT INTO STAFF VALUES('50016','pooja',65000,'kochi','kerala',6412943668,'ab@gmail.com');
INSERT INTO STAFF VALUES('50017','anil',70000,'Hyderabad','Telangana',6497596969,'anil@gmail.com');
      
```
- Result Grid:** Displays the inserted data in the `STAFF` table.
- Action Output:** Shows the log of executed SQL statements and their execution times.

MySQL Workbench Screenshot 2:

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema `practical5` with tables `advertisment`, `branch`, `owner`, `property`, `rental_agreement`, `staff`, and `viewing`.
- SQL Editor:** Contains the following SQL code to create the `BRANCH` table and insert 6 records:


```

CREATE TABLE BRANCH(BRANCH_NO INT,CITY VARCHAR(25),STATE VARCHAR(25),MANAGER INT,PHONE BIGINT,EMAIL VARCHAR(50));
INSERT INTO BRANCH VALUES('6623','Banglore','Karnataka',50018,8075337465,'banglore@gmail.com');
INSERT INTO BRANCH VALUES('6624','Vijayawada','Andhra Pradesh',50014,8076337466,'ap@gmail.com');
INSERT INTO BRANCH VALUES('6625','chennai','Tamil nadu',50015,8077337467,'tn@gmail.com');
SELECT * FROM BRANCH;
      
```
- Result Grid:** Displays the inserted data in the `BRANCH` table.
- Action Output:** Shows the log of executed SQL statements and their execution times.

MySQL Workbench - KLEF

SQL File 5*

```

10 • INSERT INTO OWNER VALUES(8899,'samuel','business','Vijayawada','Andhra Pradesh',6666903171,'samuel@gmail.cc')
11 • INSERT INTO OWNER VALUES(8900,'roberts','business','chennai','Tamil nadu',6751556272,'roberts@gmail.com')
12 • INSERT INTO OWNER VALUES(8901,'sonu','software engineer','mumbai','maharastra',6836209373,'sonu@gmail.com')
13 • INSERT INTO OWNER VALUES(8902,'raju','software engineer','pune','maharastra',6920862474,'raju@gmail.com')
14
15 • SELECT * FROM OWNER;

```

Result Grid

OWNER_NO	NAME	TYPE_OF_BUSINESS	CITY	STATE	PHONE	EMAIL
8892	shiva	private employee	Hyderabad	Telangana	6074331464	shiva@gmail.com
8893	ishwar	software engineer	Banglore	Karnataka	6158984565	ish@gmail.com
8894	gopi	private employee	Vijayawada	Andhra Pradesh	6243637666	gopi@gmail.com
8895	gopal	clerk	chennai	Tamil nadu	6328390767	gopal@gmail.com
8896	sneha	jr journalist	kochi	kerala	6412943668	sneha@gmail.com
8897	latha	teacher	Hyderabad	Telangana	6497596969	latha@gmail.com

No object selected

Output

#	Time	Action	Message	Duration / Fetch
59	12:10:55	select s.* from staff s,staff s1 where s.SALARY=s1.SALARY LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec
60	12:13:30	select s.* from staff s,staff s1 where s.SALARY=s1.SALARY and s.NAME!=s1.NAME...	2 row(s) returned	0.015 sec / 0.000 sec
61	12:15:36	SELECT * FROM STAFF LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
62	12:15:56	SELECT * FROM BRANCH LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
63	12:16:08	SELECT * FROM OWNER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
64	12:16:20	SELECT * FROM RENTER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench - KLEF

SQL File 6*

```

10 • INSERT INTO RENTER VALUES(9809,'farah','business','Vijayawada','Andhra Pradesh',6666903171,'farah@gmail.cc')
11 • INSERT INTO RENTER VALUES(9810,'zoya','business','chennai','Tamil nadu',6751556272,'zoya@gmail.com')
12 • INSERT INTO RENTER VALUES(9811,'adam','software engineer','mumbai','maharastra',6836209373,'adam@gmail.com')
13 • INSERT INTO RENTER VALUES(9812,'ricky','software engineer','pune','maharastra',6920862474,'ricky@gmail.com')
14
15 • SELECT * FROM RENTER;

```

Result Grid

RENTER_NO	NAME	TYPE_OF_BUSINESS	CITY	STATE	PHONE	EMAIL
9802	ram	private employee	Hyderabad	Telangana	6074331464	ram@gmail.com
9803	sham	software engineer	Banglore	Karnataka	6158984565	sham@gmail.com
9804	sundhar	private employee	Vijayawada	Andhra Pradesh	6243637666	sundhar@gmail.com
9805	raghu	clerk	chennai	Tamil nadu	6328390767	raghu@gmail.com
9806	raja	jr journalist	kochi	kerala	6412943668	raja@gmail.com
9807	anthony	teacher	Hyderabad	Telangana	6497596969	anthony@gmail.com

No object selected

Output

#	Time	Action	Message	Duration / Fetch
60	12:13:30	select s.* from staff s,staff s1 where s.SALARY=s1.SALARY and s.NAME!=s1.NAME...	2 row(s) returned	0.015 sec / 0.000 sec
61	12:15:36	SELECT * FROM STAFF LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
62	12:15:56	SELECT * FROM BRANCH LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
63	12:16:08	SELECT * FROM OWNER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
64	12:16:20	SELECT * FROM RENTER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec

190031187

NERELLA VENKATA RADHAKRISHNA

MySQL Workbench

KLEF x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas: acme, myschema, practicals (Tables: advertisement, branch, owner, property, rental_agreement, renter, staff, viewing; Views, Stored Procedures, Functions)

SQL File 3*, SQL File 4*, SQL File 5*, SQL File 6*, SQL File 7* (Limit to 1000 rows), SQL File 9*, SQL File 8*, SQL File 10*

SQLAdditions: Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid: PROPERTY 3 (Columns: PROPERTY_NO, CITY, OWNED_BY, OVERSEEN_BY)

PROPERTY_NO	CITY	OWNED_BY	OVERSEEN_BY
63589	Hyderabad	8892	50012
76589	Banglore	8893	50013
89589	Vijayawada	8894	50014
102589	chennai	8895	50015
115589	kochi	8896	50016
128589	Hyderabad	8897	50017

Context Help Snippets

No object selected

Output: Action Output

#	Time	Action	Message	Duration / Fetch
61	12:15:36	SELECT * FROM STAFF LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
62	12:15:56	SELECT * FROM BRANCH LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
63	12:16:08	SELECT * FROM OWNER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
64	12:16:20	SELECT * FROM RENTER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
65	12:16:32	SELECT * FROM PROPERTY LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

KLEF x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas: acme, myschema, practicals (Tables: advertisement, branch, owner, property, rental_agreement, renter, staff, viewing; Views, Stored Procedures, Functions)

SQL File 3*, SQL File 4*, SQL File 5*, SQL File 6*, SQL File 7*, SQL File 9*, SQL File 8*, SQL File 10*

SQLAdditions: Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid: ADVERTISEMENT 24 (Columns: AD_NO, AD_DATE, PAPER, PROPERTY_NO)

AD_NO	AD_DATE	PAPER	PROPERTY_NO
22	01-Jun-20	hindu	63589
23	02-Jun-20	eenadu	76589
24	03-Jun-20	times	89589
25	04-Jun-20	sakshi	102589
26	05-Jun-20	dc	115589
27	06-Jun-20	hindu	128589

Context Help Snippets

No object selected

Output: Action Output

#	Time	Action	Message	Duration / Fetch
62	12:15:56	SELECT * FROM BRANCH LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
63	12:16:08	SELECT * FROM OWNER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
64	12:16:20	SELECT * FROM RENTER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
65	12:16:32	SELECT * FROM PROPERTY LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
66	12:17:13	SELECT * FROM ADVERTISEMENT LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec

190031187

NERELLA VENKATA RADHAKRISHNA

MySQL Workbench - KLEF

SQL File 6*

```

10 • INSERT INTO VIEWING VALUES(154589,9809,'31-jul-20');
11 • INSERT INTO VIEWING VALUES(167589,9809,'01-Aug-20');
12 • INSERT INTO VIEWING VALUES(180589,9811,'02-Aug-20');
13 • INSERT INTO VIEWING VALUES(193589,9812,'03-Aug-20');

14
15 • SELECT * FROM VIEWING;

```

Result Grid

PROPERTY_NO	RENTER_NO	VIEWING_DATE
63589	9802	24-Jul-20
76589	9812	25-Jul-20
89589	9804	26-Jul-20
102589	9811	27-Jul-20
115589	9806	28-Jul-20
128589	9807	29-Jul-20

No object selected

Output

#	Time	Action	Message	Duration / Fetch
63	12:16:08	SELECT * FROM OWNER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
64	12:16:20	SELECT * FROM RENTER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
65	12:16:32	SELECT * FROM PROPERTY LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
66	12:17:13	SELECT * FROM ADVERTISEMENT LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
67	12:17:21	SELECT * FROM VIEWING LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench - KLEF

SQL File 10*

```

10 • INSERT INTO RENTAL AGREEMENT VALUES(2363,154589,'31-Aug-20','11-Sep-20','11-Sep-22',9809);
11 • INSERT INTO RENTAL AGREEMENT VALUES(2364,167589,'01-Sep-20','12-Sep-20','12-Sep-22',9809);
12 • INSERT INTO RENTAL AGREEMENT VALUES(2365,180589,'02-Sep-20','13-Sep-20','13-Sep-22',9811);
13 • INSERT INTO RENTAL AGREEMENT VALUES(2366,193589,'03-Sep-20','14-Sep-20','14-Sep-22',9812);

14
15 • select * from rental_agreements;

```

Result Grid

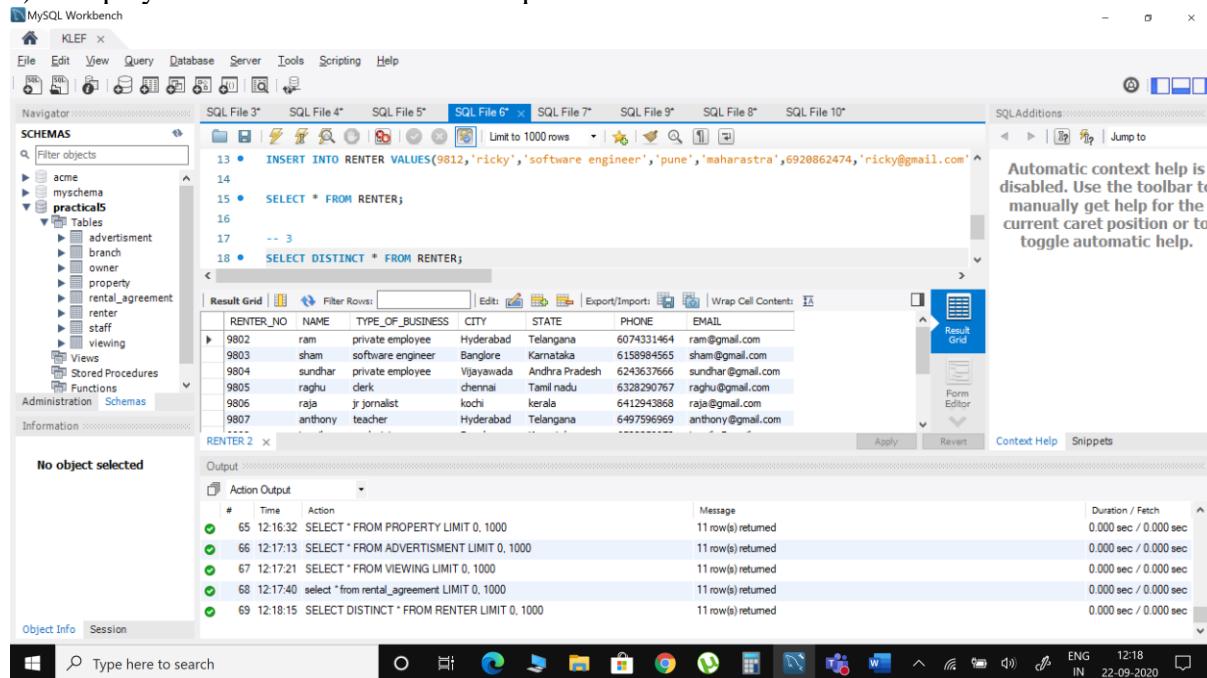
RENTAL_NO	PROPERTY_NO	SIGNING_DATE	START_DATE	END_DATE	RENTER_NO
2356	63589	24-Aug-20	04-Sep-20	04-Sep-22	9802
2357	76589	25-Aug-20	05-Sep-20	05-Sep-22	9812
2358	89589	26-Aug-20	06-Sep-20	06-Sep-22	9804
2359	102589	27-Aug-20	07-Sep-20	07-Sep-22	9811
2360	115589	28-Aug-20	08-Sep-20	08-Sep-22	9806
2361	128589	29-Aug-20	09-Sep-20	09-Sep-22	9807

No object selected

Output

#	Time	Action	Message	Duration / Fetch
64	12:16:20	SELECT * FROM RENTER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
65	12:16:32	SELECT * FROM PROPERTY LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
66	12:17:13	SELECT * FROM ADVERTISEMENT LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
67	12:17:21	SELECT * FROM VIEWING LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
68	12:17:40	select * from rental_agreements LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec

- 3) Display renter details which are unique.



The screenshot shows the MySQL Workbench interface with the following details:

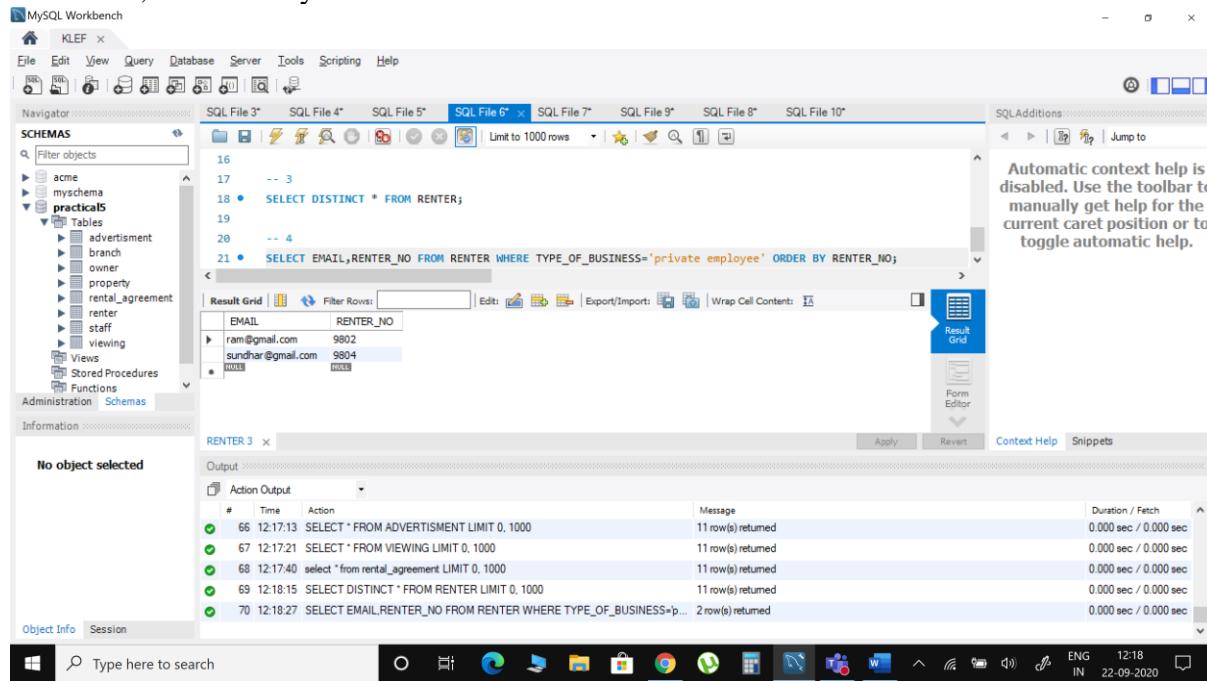
- Navigator:** Shows the schema **practical5** with tables: **advertisment**, **branch**, **owner**, **property**, **rental_agreement**, **renter**, **staff**, and **viewing**.
- SQL Editor:** Contains the following SQL code:


```

13 • INSERT INTO RENTER VALUES('9812','ricky','software engineer','pune','maharastra',6920862474,'ricky@gmail.com')
14
15 • SELECT * FROM RENTER;
16
17 -- 3
18 • SELECT DISTINCT * FROM RENTER;
      
```
- Result Grid:** Displays the results of the `SELECT DISTINCT` query:

RENTER_NO	NAME	TYPE_OF_BUSINESS	CITY	STATE	PHONE	EMAIL
9802	ram	private employee	Hyderabad	Telangana	6074331464	ram@gmail.com
9803	sham	software engineer	Banglore	Karnataka	6158984565	sham@gmail.com
9804	sundhar	private employee	Vijayawada	Andhra Pradesh	6243637656	sundhar@gmail.com
9805	raghu	clerk	chennai	Tamil nadu	6328290767	raghu@gmail.com
9806	raja	jr journalist	kochi	kerala	6412943868	raja@gmail.com
9807	anthony	teacher	Hyderabad	Telangana	6497596969	anthony@gmail.com
- Action Output:** Shows the execution history with 6 entries, all successful, indicating 11 rows returned each time.

- 4) Give the email addresses and the renter number for all the private renters.
Please, sort them by the renter number.



The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema **practical5** with tables: **advertisment**, **branch**, **owner**, **property**, **rental_agreement**, **renter**, **staff**, and **viewing**.
- SQL Editor:** Contains the following SQL code:


```

16
17 -- 3
18 • SELECT DISTINCT * FROM RENTER;
19
20 -- 4
21 • SELECT EMAIL,RENTER_NO FROM RENTER WHERE TYPE_OF_BUSINESS='private employee' ORDER BY RENTER_NO;
      
```
- Result Grid:** Displays the results of the `SELECT` query:

EMAIL	RENTER_NO
ram@gmail.com	9802
sundhar@gmail.com	9804
*	HULL
- Action Output:** Shows the execution history with 7 entries, all successful, indicating 11 rows returned each time.

- 5) Find unique property name and number of branches for each property.

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** KLEF, practicals
- Tables:** advertisement, branch, owner, property, rental_agreement, renter, staff, viewing
- Query:**

```

12 • INSERT INTO PROPERTY VALUES(180589,'mumbai',8981,50013);
13 • INSERT INTO PROPERTY VALUES(193589,'pune',8902,50018);
14
15 • SELECT * FROM PROPERTY;
16 -- 5
17 • SELECT property_no,count(CITY) as branch_count,owned_by from property group by property_no;
    
```
- Result Grid:**

property_no	branch_count	owned_by
63589	1	8892
76589	1	8893
89589	1	8894
102589	1	8895
115589	1	8896
128589	1	8897

- Action Output:**

#	Time	Action	Message	Duration / Fetch
67	12:17:21	SELECT * FROM VIEWING LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
68	12:17:40	select *from rental_agreement LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
69	12:18:15	SELECT DISTINCT * FROM RENTER LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec
70	12:18:27	SELECT EMAIL,RENTER_NO FROM RENTER WHERE TYPE_OF_BUSINESS='p... 2 row(s) returned	0.000 sec / 0.000 sec	0.000 sec / 0.000 sec
71	12:18:45	SELECT property_no,count(CITY) as branch_count,owned_by from property group by property_no;	11 row(s) returned	0.000 sec / 0.000 sec

6) Create table for staff member and insert all the details of the staff members.

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** KLEF, practicals
- Tables:** advertisement, branch, owner, property, rental_agreement, renter, staff, viewing
- Query:**

```

1 • CREATE TABLE STAFF(STAFF_NO INT,NAME VARCHAR(25),SALARY INT,CITY VARCHAR(25),STATE VARCHAR(25),PHONE BIGINT)
2
3 • INSERT INTO STAFF VALUES('50012','Surya',45000,'Hyderabad','Telangana',6074331464,'sj@gmail.com');
4 • INSERT INTO STAFF VALUES('50013','raju',50000,'Banglore','Karnataka',6158984565,'raju@yahoo.co.in');
5 • INSERT INTO STAFF VALUES('50014','virat',55000,'Vijayawada','Andhra Pradesh',6243637666,'v@yahoo.com');
6 • INSERT INTO STAFF VALUES('50015','laya',60000,'Chennai','Tamil nadu',6328290767,'pooja@tcs.com');
7 • INSERT INTO STAFF VALUES('50016','pooja',65000,'kochi','kerala',6412943868,'ab@gmail.com');
8 • INSERT INTO STAFF VALUES('50017','anil',70000,'Hyderabad','Telangana',6497596969,'anil@gmail.com')
    
```
- Result Grid:**

STAFF_NO	NAME	SALARY	CITY	STATE	PHONE	EMAIL
50012	Surya	45000	Hyderabad	Telangana	6074331464	sj@gmail.com
50013	raju	50000	Banglore	Karnataka	6158984565	raju@yahoo.co.in
50014	virat	55000	Vijayawada	Andhra Pradesh	6243637666	v@yahoo.com
50015	laya	60000	Chennai	Tamil nadu	6328290767	pooja@tcs.com
50016	pooja	65000	kochi	kerala	6412943868	ab@gmail.com
50017	anil	70000	Hyderabad	Telangana	6497596969	anil@gmail.com
- Action Output:**

#	Time	Action	Message	Duration / Fetch
57	12:10:44	select s.* from staff s,staff s1 where s.SALARY>=1.SALARY and count(s.salary)>1 LI...	Error Code: 1111. Invalid use of group function	0.000 sec
58	12:10:48	select s.* from staff s,staff s1 where s.SALARY>=1.SALARY having count(s.salary)>1...	1 row(s) returned	0.000 sec / 0.000 sec
59	12:10:55	select s.* from staff s,staff s1 where s.SALARY>=1.SALARY LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec
60	12:13:30	select s.* from staff s,staff s1 where s.SALARY>=1.SALARY and s.NAME!=s1.NAME...	2 row(s) returned	0.015 sec / 0.000 sec
61	12:15:36	SELECT * FROM STAFF LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec

7) Give the dates of all the advertisements posted in THE GLOBE AND MAIL in 2005.

```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigator: Schemas SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 9* SQL File 8* SQL File 10*
schemas acme myschema practicals
Tables advertisement branch owner property rental_agreement renter staff viewing
Views Stored Procedures Functions Administration Schemas
Information No object selected
advertisment 25 x
Output: Action Output
# Time Action Message Duration / Fetch
68 12:17:40 select * from rental_agreement LIMIT 0, 1000 11 row(s) returned 0.000 sec / 0.000 sec
69 12:18:15 SELECT DISTINCT * FROM RENTER LIMIT 0, 1000 11 row(s) returned 0.000 sec / 0.000 sec
70 12:18:27 SELECT EMAIL,RENTER_NO FROM RENTER WHERE TYPE_OF_BUSINESS=p... 2 row(s) returned 0.000 sec / 0.000 sec
71 12:18:45 SELECT property_no, count(CITY) as branch_count FROM property group by CITY 11 row(s) returned 0.000 sec / 0.000 sec
72 12:19:55 select ad_no,ad_date from advertisement where paper='hindu' and ad_date LIKE '%20...' 3 row(s) returned 0.000 sec / 0.000 sec
Object Info Session

```

- 8) Display the count of staff in each branch and display them in descending order on count.

```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigator: Schemas SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 9* SQL File 8* SQL File 10*
schemas acme myschema practicals
Tables advertisement branch owner property rental_agreement renter staff viewing
Views Stored Procedures Functions Administration Schemas
Information No object selected
Result 36 x
Output: Action Output
# Time Action Message Duration / Fetch
82 12:23:13 SELECT branch.BRANCH_NO,branch.city,(staff.city) from STAFF inner join branch o... 5 row(s) returned 0.000 sec / 0.000 sec
83 12:23:20 SELECT branch.BRANCH_NO,branch.city,count(staff.city) from STAFF inner join bra... 5 row(s) returned 0.000 sec / 0.000 sec
84 12:23:35 SELECT branch.BRANCH_NO,branch.city,count(staff.city) as staff_count from STA... 5 row(s) returned 0.000 sec / 0.000 sec
85 12:23:45 SELECT branch.BRANCH_NO,branch.CITY,count(staff.city) as staff_count from ST... 5 row(s) returned 0.000 sec / 0.000 sec
86 12:23:55 SELECT branch.BRANCH_NO,branch.CITY,count(staff city) as staff_count from ST... 5 row(s) returned 0.000 sec / 0.000 sec
Object Info Session

```

- 9) Find the properties that are already advertised but not yet rented.

The screenshot shows the MySQL Workbench interface. In the Navigator pane, under the 'practicals' schema, there are tables for 'advertisment', 'branch', 'owner', 'property', 'rental_agreement', 'renter', 'staff', and 'viewing'. The current query in the SQL Editor (SQL File 7) is:

```

17 • SELECT property_no, count(CITY) as branch_count, owned_by from property group by property_no;
18
19 -- 9
20 • SELECT * FROM PROPERTY WHERE PROPERTY_NO IN
21 (SELECT PROPERTY_NO FROM advertisement WHERE NOT PROPERTY_NO IN
22 (SELECT PROPERTY_NO FROM RENTAL AGREEMENT));

```

The Result Grid shows the following data:

PROPERTY_NO	CITY	OWNED_BY	OVERSEEN_BY
HULL	HULL	HULL	HULL

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
83	12:23:20	SELECT branch.BRANCH_NO,branch.city.count(staff.city) from STAFF inner join bra...	5 row(s) returned	0.000 sec / 0.000 sec
84	12:23:35	SELECT branch.BRANCH_NO,branch.city.count(staff.city) as staff_count from STA...	5 row(s) returned	0.000 sec / 0.000 sec
85	12:23:45	SELECT branch.BRANCH_NO,branch.CITY.count(staff.city) as staff_count from ST...	5 row(s) returned	0.000 sec / 0.000 sec
86	12:23:55	SELECT branch.BRANCH_NO,branch.CITY.count(staff.city) as staff_count from ST...	5 row(s) returned	0.000 sec / 0.000 sec
87	12:24:22	SELECT * FROM PROPERTY WHERE PROPERTY_NO IN (SELECT PROPERTY...	0 row(s) returned	0.000 sec / 0.000 sec

- 10) Assuming that each advertisement costs 100 dollars, give the branch number and the amount spent on the advertisements for each branch. Name the branch number as Branch no, and the amount as ad cost.

The screenshot shows the MySQL Workbench interface. In the Navigator pane, under the 'practicals' schema, there are tables for 'advertisment', 'branch', 'owner', 'property', 'rental_agreement', 'renter', 'staff', and 'viewing'. The current query in the SQL Editor (SQL File 9) is:

```

16 -- 7
17 • select ad_no, ad_date from advertisement where paper='hindu' and ad_date LIKE '%20';
18 -- 18
19 • select branch.branch_no, branch.city, count(*)*100 as ad_cost
20 from advertisement inner join property on property.PROPERTY_NO=advertisement.PROPERTY_NO
21 inner join branch on property.city=branch.CITY group by branch.city;

```

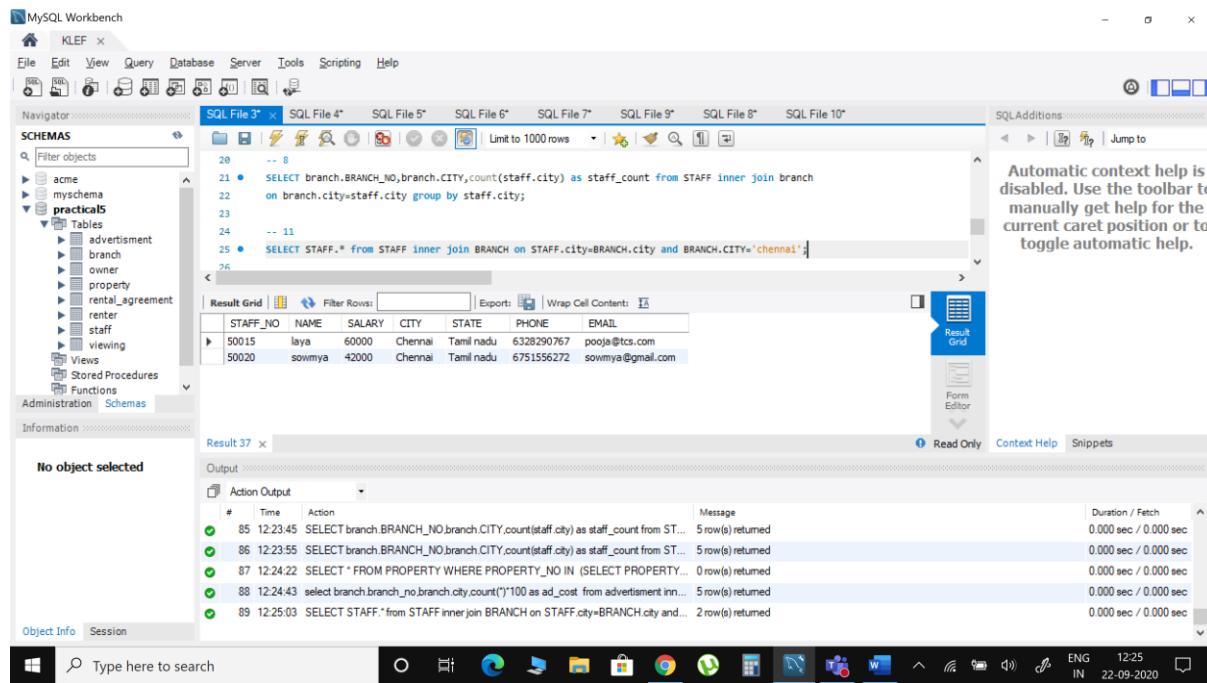
The Result Grid shows the following data:

branch_no	city	ad_cost
6622	Hyderabad	200
6623	Banglore	200
6624	Vijayawada	200
6625	chennai	200
6626	kochi	100

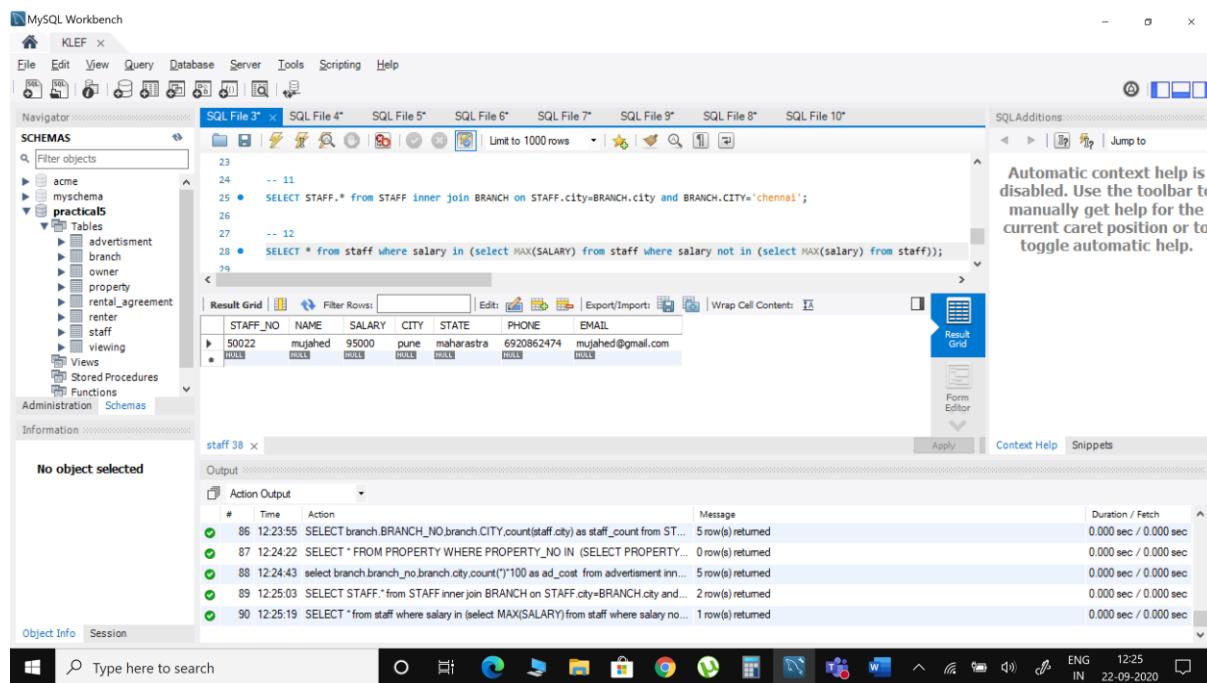
The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
84	12:23:35	SELECT branch.BRANCH_NO,branch.city.count(staff.city) as staff_count from STA...	5 row(s) returned	0.000 sec / 0.000 sec
85	12:23:45	SELECT branch.BRANCH_NO,branch.CITY.count(staff.city) as staff_count from ST...	5 row(s) returned	0.000 sec / 0.000 sec
86	12:23:55	SELECT branch.BRANCH_NO,branch.CITY.count(staff.city) as staff_count from ST...	5 row(s) returned	0.000 sec / 0.000 sec
87	12:24:22	SELECT * FROM PROPERTY WHERE PROPERTY_NO IN (SELECT PROPERTY...	0 row(s) returned	0.000 sec / 0.000 sec
88	12:24:43	select branch.branch_no,branch.city.count(*)*100 as ad_cost from advertisement inn...	5 row(s) returned	0.000 sec / 0.000 sec

- 11) Display the details of staff who are working in a particular branch.



- 12) Write down a query to find out the Name, Address and Position of the branch staff whose salary is the second highest without using TOP or limit method.



- 13) Write a query to print details of the staff whose Name ends with 'h' and contains six alphabets.

The screenshot shows the MySQL Workbench interface. In the SQL Editor tab, a query is run:

```

17 •   SELECT * FROM STAFF WHERE SALARY BETWEEN 100000 AND 500000;
18 •   -- 13
19 •   SELECT * FROM STAFF WHERE NAME LIKE '_____h';
20 •   -- 8
21 •   SELECT branch.BRANCH_NO,branch.CITY,count(staff.city) as staff_count FROM STAFF inner join branch
22   on branch.city=staff.city group by staff.city;
23

```

The Result Grid shows one row of data:

STAFF_NO	NAME	SALARY	CITY	STATE	PHONE	EMAIL
50023	rakesh	100000	pune	maharashtra	6863209733	rakesh@gmail.com

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
87	12:24:22	SELECT * FROM PROPERTY WHERE PROPERTY_NO IN (SELECT PROPERTY...	0 row(s) returned	0.000 sec / 0.000 sec
88	12:24:43	select branch.branch_no,branch.city.count(*)100 as ad_cost from advertisement inn...	5 row(s) returned	0.000 sec / 0.000 sec
89	12:25:03	SELECT STAFF.* from STAFF inner join BRANCH on STAFF.city=BRANCH city and...	2 row(s) returned	0.000 sec / 0.000 sec
90	12:25:19	SELECT * from staff where salary in (select MAX(SALARY)from staff where salary no...	1 row(s) returned	0.000 sec / 0.000 sec
91	12:25:48	SELECT * FROM STAFF WHERE NAME LIKE '_____h' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

- 14) Write a query to print details of the staff whose SALARY lies between 100000 and 500000.

The screenshot shows the MySQL Workbench interface. In the SQL Editor tab, a query is run:

```

12 •   INSERT INTO STAFF VALUES($0021,'robert','90000','mumbai','maharashtra',68362099373,'robert@gmail.com');
13 •   INSERT INTO STAFF VALUES($0022,'mujahed','95000','pune','maharashtra',6920862474,'mujahed@gmail.com');
14 •   INSERT INTO STAFF VALUES($0023,'rakesh','100000','pune','maharashtra',6863209733,'rakesh@gmail.com');
15 •   SELECT * FROM STAFF;
16
-- 14
17 •   SELECT * FROM STAFF WHERE SALARY BETWEEN 100000 AND 500000;
18
-- 13

```

The Result Grid shows one row of data:

STAFF_NO	NAME	SALARY	CITY	STATE	PHONE	EMAIL
50023	rakesh	100000	pune	maharashtra	6863209733	rakesh@gmail.com

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
88	12:24:43	select branch.branch_no,branch.city.count(*)100 as ad_cost from advertisement inn...	5 row(s) returned	0.000 sec / 0.000 sec
89	12:25:03	SELECT STAFF.* from STAFF inner join BRANCH on STAFF.city=BRANCH city and...	2 row(s) returned	0.000 sec / 0.000 sec
90	12:25:19	SELECT * from staff where salary in (select MAX(SALARY)from staff where salary no...	1 row(s) returned	0.000 sec / 0.000 sec
91	12:25:48	SELECT * FROM STAFF WHERE NAME LIKE '_____h' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
92	12:25:57	SELECT * FROM STAFF WHERE SALARY BETWEEN 100000 AND 500000 LIMIT...	1 row(s) returned	0.000 sec / 0.000 sec

- 15) Write a query to display the list of employees who draw same salary

MySQL Workbench

KLEF x

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 9* SQL File 8* SQL File 10*

SCHEMAS: acme myschema practicals

Tables: advertisement branch owner property rental_agreement renter staff viewing

Views

Stored Procedures

Functions

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor

SQLAdditions: Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result 41 x Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
89	12:25:03	SELECT STAFF.* from STAFF inner join BRANCH on STAFF.city=BRANCH.city and...	2 row(s) returned	0.000 sec / 0.000 sec
90	12:25:19	SELECT * from staff where salary in (select MAX(SALARY) from staff where salary no...	1 row(s) returned	0.000 sec / 0.000 sec
91	12:25:48	SELECT * FROM STAFF WHERE NAME LIKE '____h' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
92	12:25:57	SELECT * FROM STAFF WHERE SALARY BETWEEN 100000 AND 500000 LIMIT...	1 row(s) returned	0.000 sec / 0.000 sec
93	12:26:11	select s.* from staff s,staff s1 where s.SALARY>=s1.SALARY and s.NAME!=s1.NAME...	2 row(s) returned	0.000 sec / 0.000 sec

Type here to search

Object Info Session

ENG IN 12:26 22-09-2020