

Name - Yash Lakhtariya

Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

Institute of Computer Technology

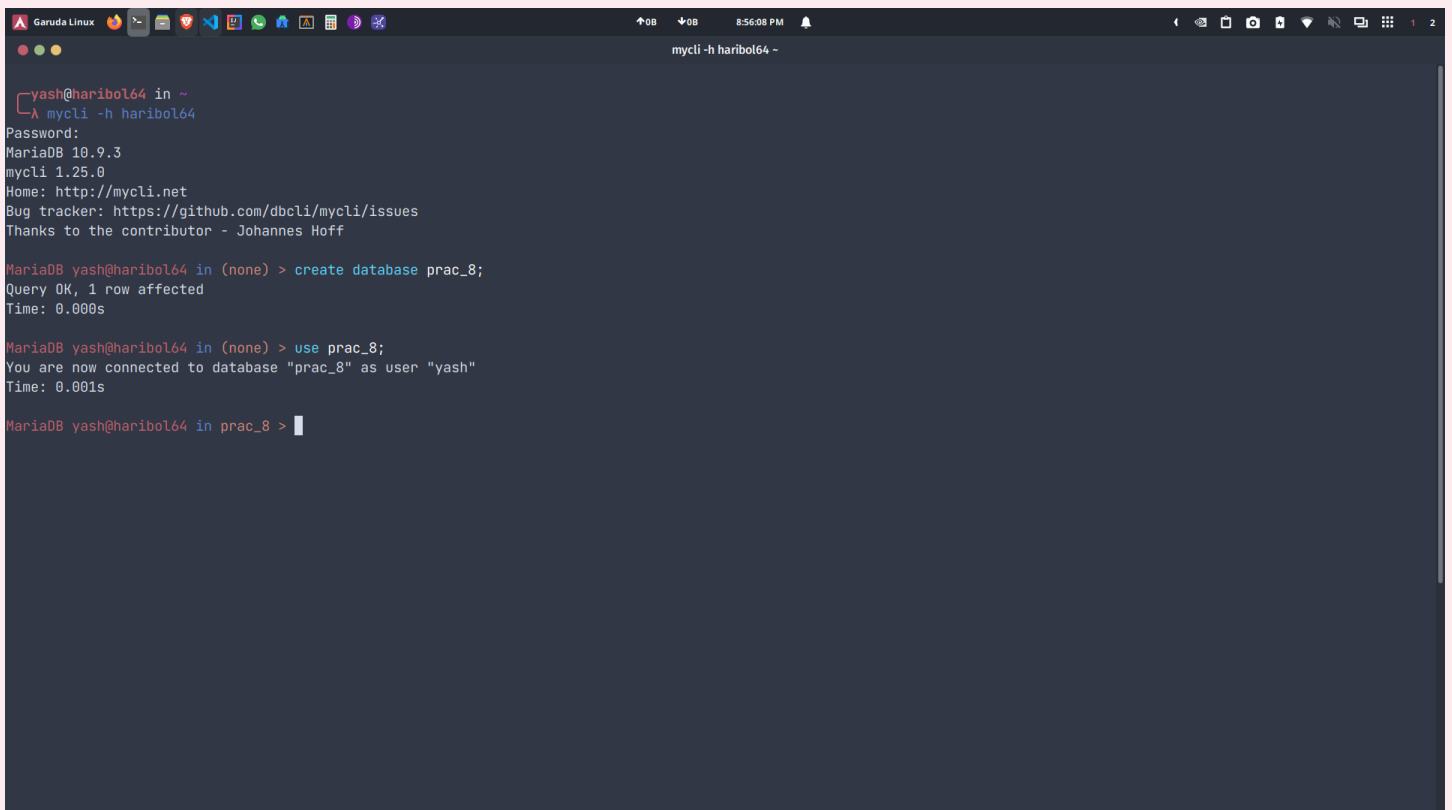
B.Tech Computer Science and Engineering

Sub: Database Management System (2CSE301)

Practical-08 : Perform following query using subquery (Do not use join).

Exercise (With respective queries and outputs) :

Initial environment and queries :



```
Garuda Linux
mycli -h haribol64 ~

yash@haribol64 in ~
└─ mycli -h haribol64
Password:
MariaDB 10.9.3
mycli 1.25.0
Home: http://mycli.net
Bug tracker: https://github.com/dbcli/mycli/issues
Thanks to the contributor - Johannes Hoff

MariaDB yash@haribol64 in (none) > create database prac_8;
Query OK, 1 row affected
Time: 0.000s

MariaDB yash@haribol64 in (none) > use prac_8;
You are now connected to database "prac_8" as user "yash"
Time: 0.001s

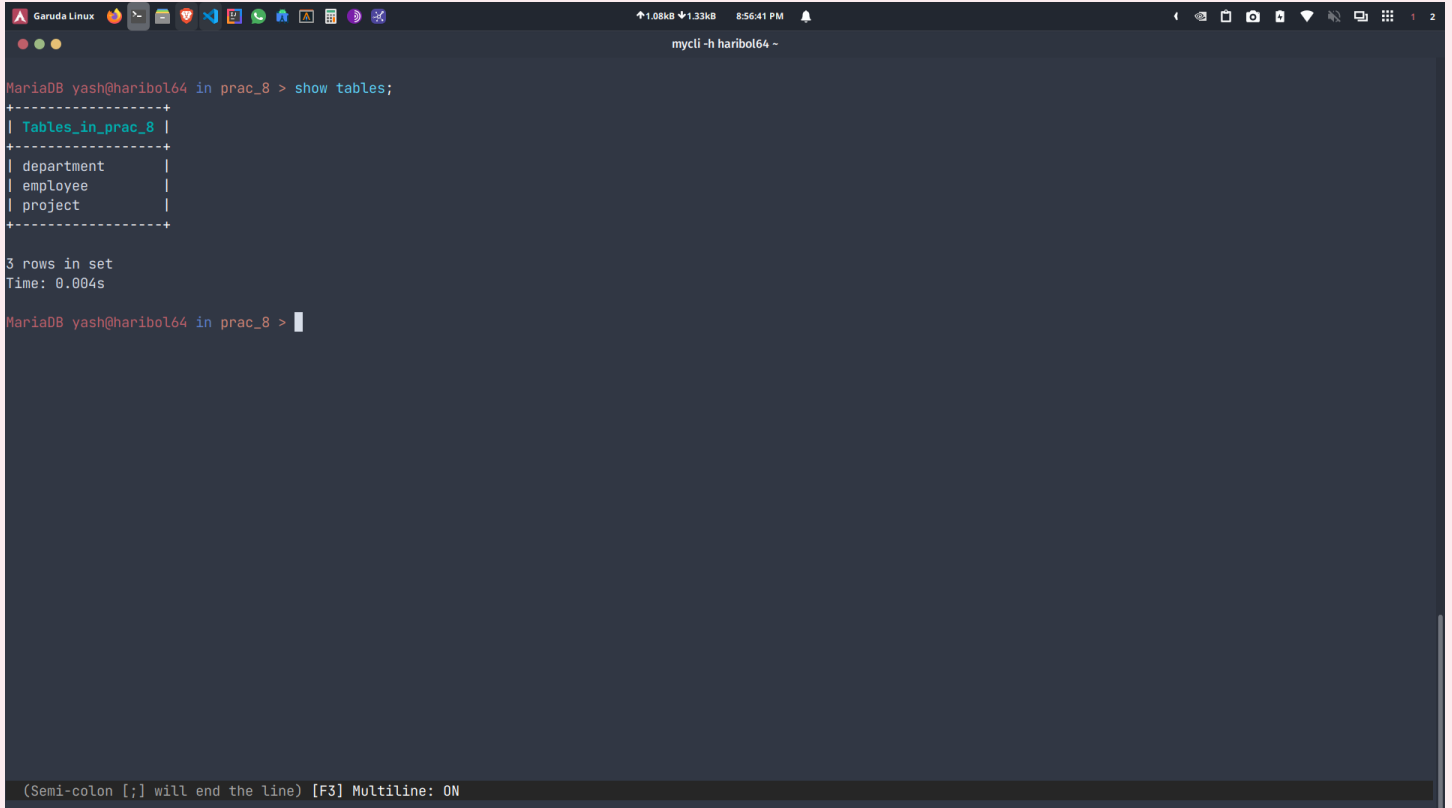
MariaDB yash@haribol64 in prac_8 > 
```

Name - Yash Lakhtariya

Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8



The screenshot shows a terminal window titled "Garuda Linux" with a system status bar at the top displaying network speed (1.08kB/s), memory usage (1.33kB), and time (8:56:41 PM). The terminal prompt is "mycli -h haribol64 ~". The user has entered the command "MariaDB yash@haribol64 in prac_8 > show tables;". The output is a table titled "Tables_in_prac_8" with three rows: "department", "employee", and "project". Below the table, it says "3 rows in set" and "Time: 0.004s". The prompt "MariaDB yash@haribol64 in prac_8 >" is shown again with a cursor. At the bottom, a status bar reads "(Semi-colon [;] will end the line) [F3] Multiline: ON".

```
MariaDB yash@haribol64 in prac_8 > show tables;
+-----+
| Tables_in_prac_8 |
+-----+
| department        |
| employee           |
| project            |
+-----+

3 rows in set
Time: 0.004s

MariaDB yash@haribol64 in prac_8 > 
```

(Semi-colon [;] will end the line) [F3] Multiline: ON

Name - Yash Lakhtariya

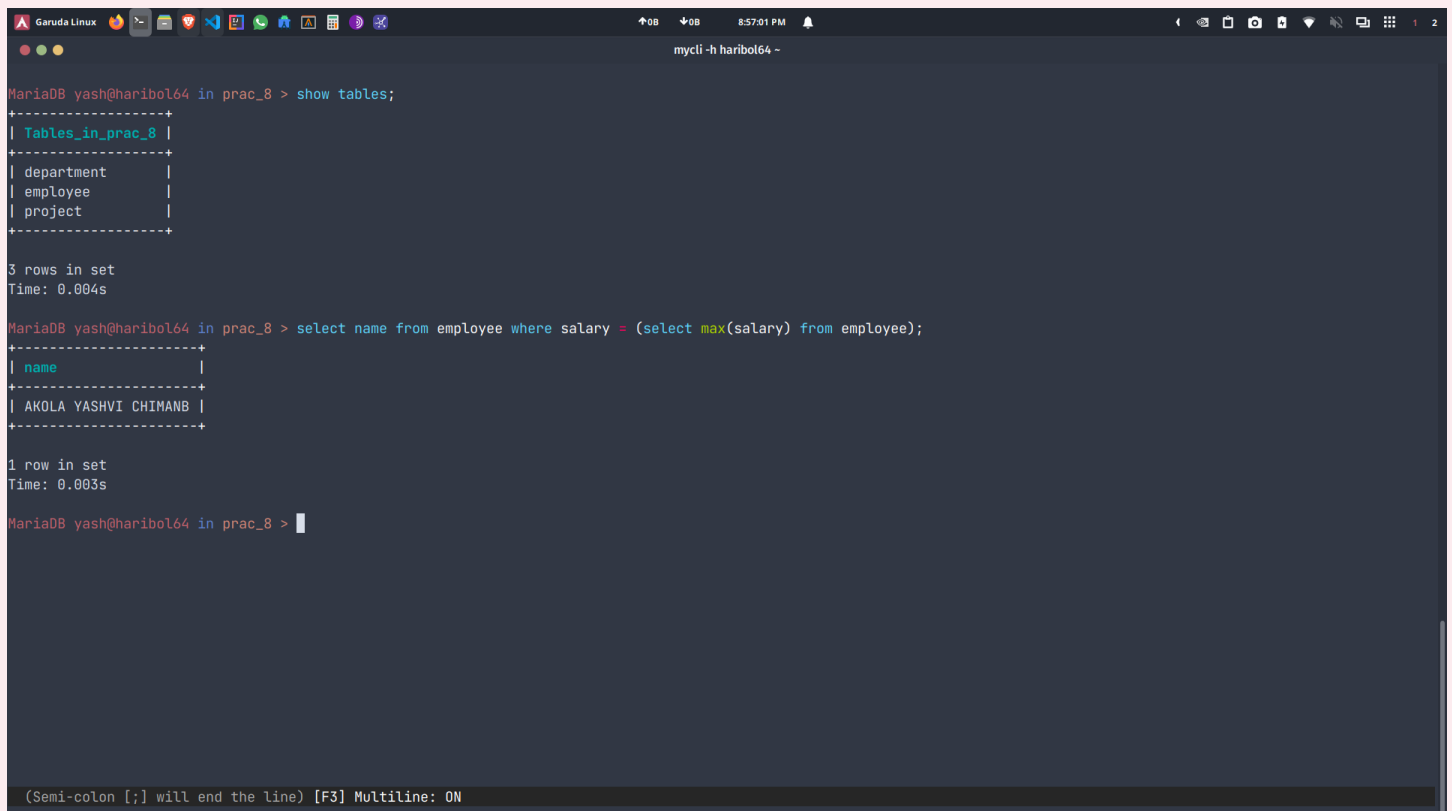
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

1. Display name of employee who has highest salary in department.

```
select name from employee where salary = (select max(salary)
from employee);
```



The screenshot shows a MySQL terminal window titled "mycli -h haribol64 -". The user is logged in as "yash@haribol64" in the "prac_8" database. The first query executed is "show tables;", which returns a list of tables: "department", "employee", and "project". The second query is "select name from employee where salary = (select max(salary) from employee);", which returns one row: "AKOLA YASHVI CHIMANB".

```
Garuda Linux
mycli -h haribol64 -

MariaDB [yash@haribol64] in prac_8 > show tables;
+-----+
| Tables_in_prac_8 |
+-----+
| department       |
| employee         |
| project          |
+-----+

3 rows in set
Time: 0.004s

MariaDB [yash@haribol64] in prac_8 > select name from employee where salary = (select max(salary) from employee);
+-----+
| name                |
+-----+
| AKOLA YASHVI CHIMANB |
+-----+

1 row in set
Time: 0.003s

MariaDB [yash@haribol64] in prac_8 >

(Semi-colon [;] will end the line) [F3] Multiline: ON
```

Name - Yash Lakhtariya

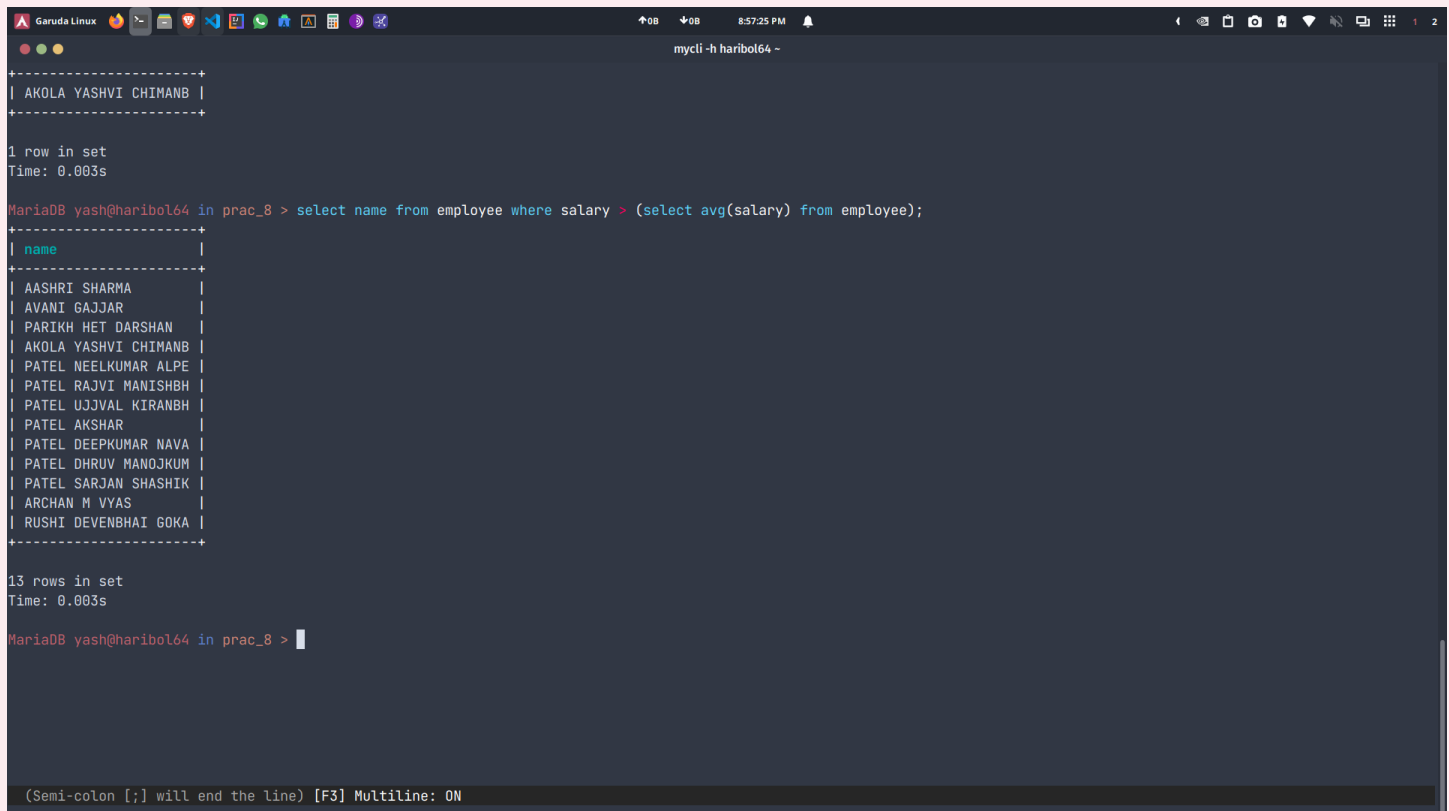
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

2. Display name of all employee whose salary is higher than average salary of all employee.

```
select name from employee where salary > (select avg(salary) from employee);
```



The screenshot shows a terminal window with a Linux desktop environment at the top. The terminal is running a MySQL query. The first part of the output shows a single row result for 'AKOLA YASHVI CHIMANB'. The second part shows the execution of the query 'select name from employee where salary > (select avg(salary) from employee);' which returns 13 rows of employee names. The names listed are: AASHRI SHARMA, AVANI GAJJAR, PARIKH HET DARSHAN, AKOLA YASHVI CHIMANB, PATEL NEELKUMAR ALPE, PATEL RAJVI MANISHBH, PATEL UJJVAL KIRANBH, PATEL AKSHAR, PATEL DEEPKUMAR NAVA, PATEL DHRUV MANOJKUM, PATEL SARJAN SHASHIK, ARCHAN M VYAS, and RUSHI DEVENBHAI GOKA. The terminal status bar at the bottom indicates '(Semi-colon [;] will end the line) [F3] Multiline: ON'.

```
Garuda Linux 8:57:25 PM mycli -h haribol64 -  
-----+  
| AKOLA YASHVI CHIMANB |  
-----+  
1 row in set  
Time: 0.003s  
  
MariaDB yash@haribol64 in prac_8 > select name from employee where salary > (select avg(salary) from employee);  
-----+  
| name |  
-----+  
| AASHRI SHARMA |  
| AVANI GAJJAR |  
| PARIKH HET DARSHAN |  
| AKOLA YASHVI CHIMANB |  
| PATEL NEELKUMAR ALPE |  
| PATEL RAJVI MANISHBH |  
| PATEL UJJVAL KIRANBH |  
| PATEL AKSHAR |  
| PATEL DEEPKUMAR NAVA |  
| PATEL DHRUV MANOJKUM |  
| PATEL SARJAN SHASHIK |  
| ARCHAN M VYAS |  
| RUSHI DEVENBHAI GOKA |  
-----+  
13 rows in set  
Time: 0.003s  
  
MariaDB yash@haribol64 in prac_8 >   
  
(Semi-colon [;] will end the line) [F3] Multiline: ON
```

DBMS Practical 8

3. Display Department name in which empno 10 works.

```
select deptname from department where deptno = (select deptno from
employee where empno = 10);
```

```

+-----+
| AASHRI SHARMA |
| AVANI GAJJAR  |
| PARIKH HET DARSHAN |
| AKOLA YASHVI CHIMANB |
| PATEL NEELKUMAR ALPE |
| PATEL RAJVI MANISHBH |
| PATEL UJJVAL KIRANBH |
| PATEL AKSHAR   |
| PATEL DEEPKUMAR NAVA |
| PATEL DHRUV MANOJKUM |
| PATEL SARJAN SHASHIK |
| ARCHAN M VYAS   |
| RUSHI DEVENBHAI GOKA |
+-----+

13 rows in set
Time: 0.003s

MariaDB yash@haribol64 in prac_8 > select deptname from department where deptno = (select deptno from employee where empno = 10);
+-----+
| deptname |
+-----+
| Sales    |
+-----+

1 row in set
Time: 0.007s

MariaDB yash@haribol64 in prac_8 >

```

(Semi-colon [;] will end the line) [F3] Multiline: ON

Name - Yash Lakhtariya

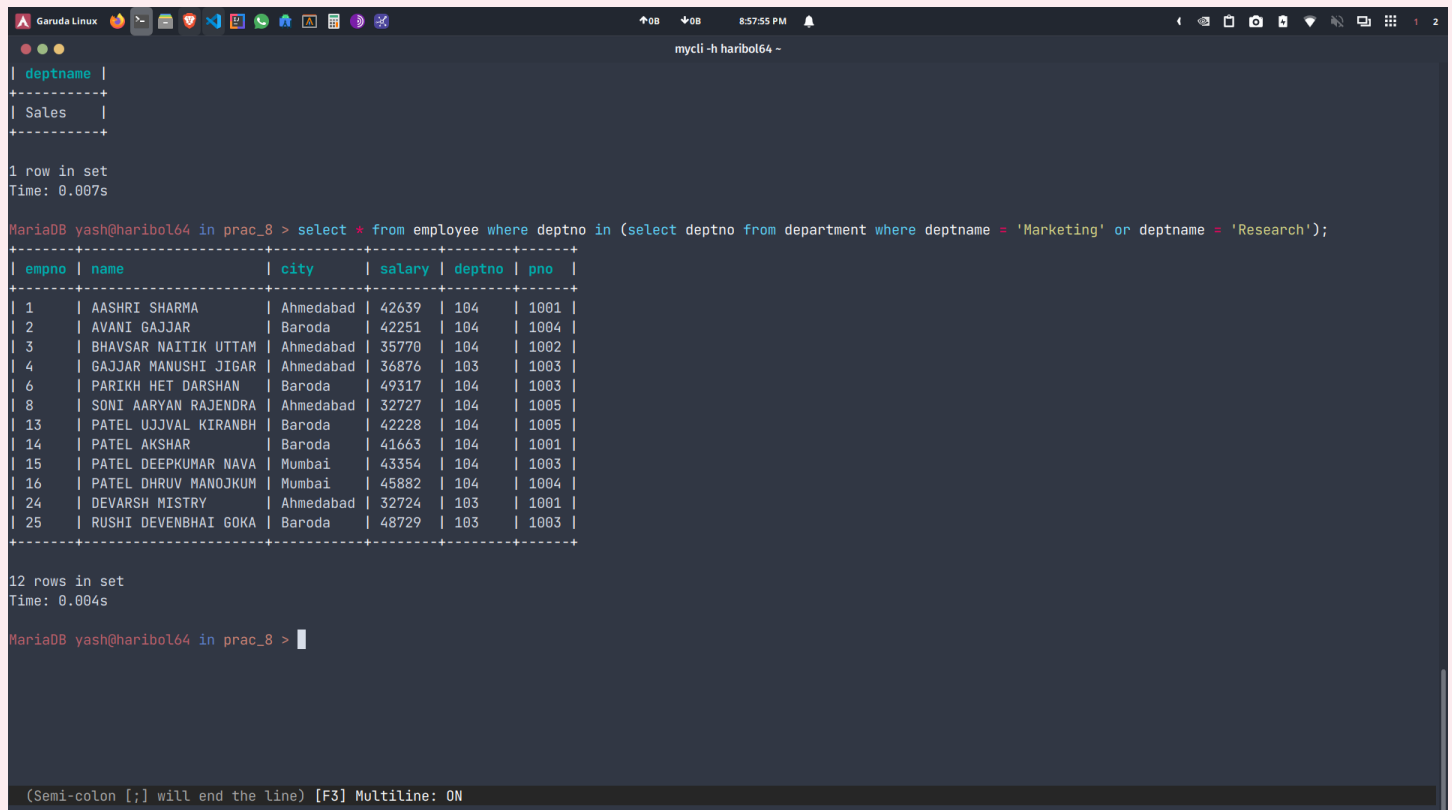
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

4. Get Employee details working under Marketing and Research department.

```
select * from employee where deptno in (select deptno from
department where deptname = 'Marketing' or deptname = 'Research');
```



The screenshot shows a terminal window with a MySQL command prompt. The user has executed a query to select employee details from the 'employee' table where the department number is in the list of department numbers for 'Marketing' or 'Research'. The results are displayed in a table format with columns: empno, name, city, salary, deptno, and pno. There are 12 rows of data.

```
Garuda Linux 8:57:55 PM mycli -h haribol64 -
```

```
deptname |
+-----+
| Sales   |
+-----+

1 row in set
Time: 0.007s

MariaDB yash@haribol64 in prac_8 > select * from employee where deptno in (select deptno from department where deptname = 'Marketing' or deptname = 'Research');
```

empno	name	city	salary	deptno	pno
1	AASHRI SHARMA	Ahmedabad	42639	104	1001
2	AVANI GAJJAR	Baroda	42251	104	1004
3	BHAVSAR NAITIK UTTAM	Ahmedabad	35770	104	1002
4	GAJJAR MANUSHI JIGAR	Ahmedabad	36876	103	1003
6	PARIKH HET DARSHAN	Baroda	49317	104	1003
8	SONI AARYAN RAJENDRA	Ahmedabad	32727	104	1005
13	PATEL UJJVAL KIRANBH	Baroda	42228	104	1005
14	PATEL AKSHAR	Baroda	41663	104	1001
15	PATEL DEEPKUMAR NAVA	Mumbai	43354	104	1003
16	PATEL DHRUV MANOJKUM	Mumbai	45882	104	1004
24	DEVARSH MISTRY	Ahmedabad	32724	103	1001
25	RUSHI DEVENBHAI GOKA	Baroda	48729	103	1003

```
12 rows in set
Time: 0.004s

MariaDB yash@haribol64 in prac_8 >
```

(Semi-colon [;] will end the line) [F3] Multiline: ON

Name - Yash Lakhtariya

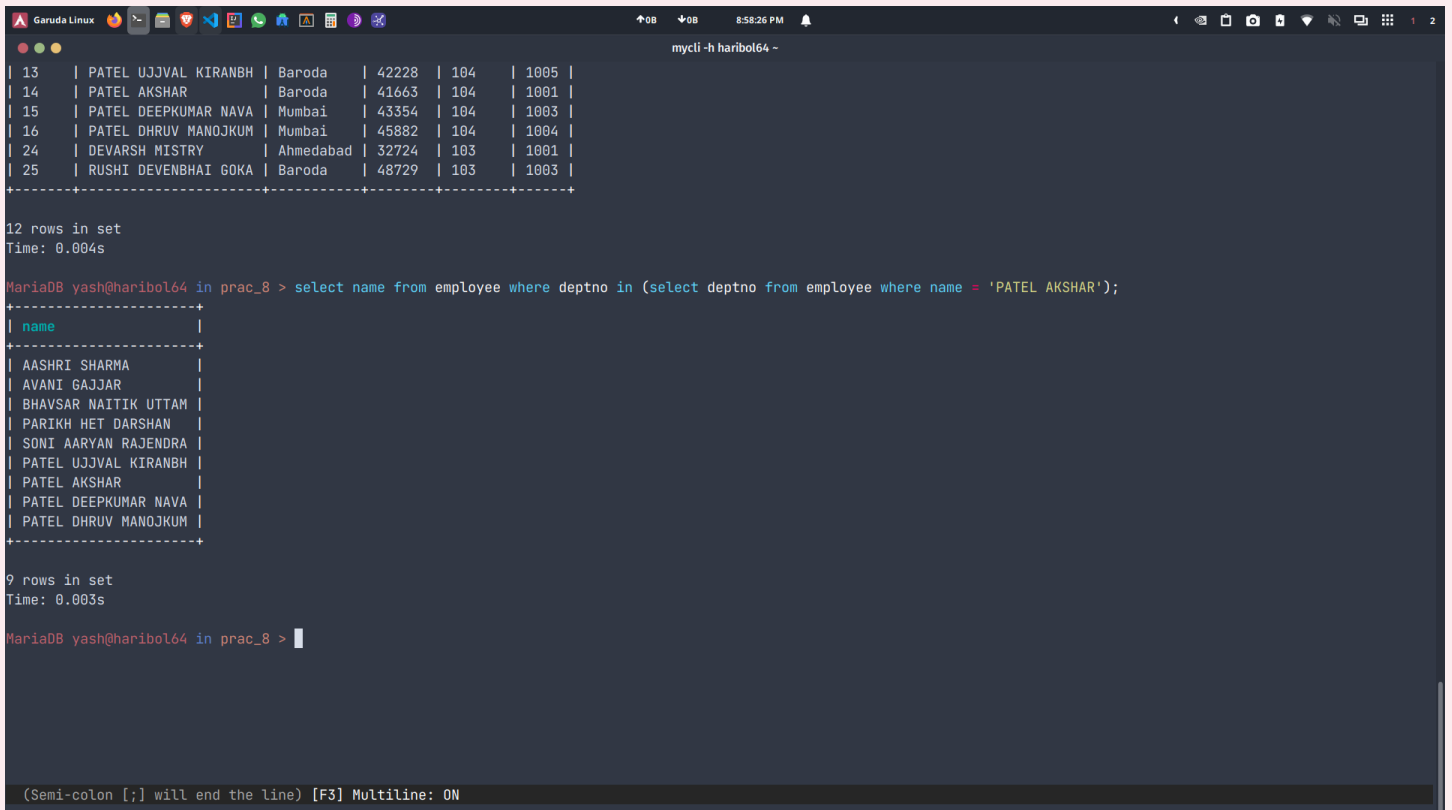
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

5. Display Name of all employee who is working in same department in which “**PATEL AKSHAR**” is working.

```
select name from employee where deptno in (select deptno from employee where name = 'PATEL AKSHAR');
```



The screenshot shows a terminal window on a Linux system. The terminal displays the output of a SQL query. The first query shows 12 rows in a set, listing employee details. The second query shows 9 rows in a set, listing employee names who work in the same department as Patel Akshar.

```
Garuda Linux 8.58:26 PM mycli -h haribol64 -  
+-----+  
| 13 | PATEL UJJVAL KIRANBH | Baroda | 42228 | 104 | 1005 |  
| 14 | PATEL AKSHAR | Baroda | 41663 | 104 | 1001 |  
| 15 | PATEL DEEPKUMAR NAVA | Mumbai | 43354 | 104 | 1003 |  
| 16 | PATEL DHRUV MANOJKUM | Mumbai | 45882 | 104 | 1004 |  
| 24 | DEVARSH MISTRY | Ahmedabad | 32724 | 103 | 1001 |  
| 25 | RUSHI DEVENBHAI GOKA | Baroda | 48729 | 103 | 1003 |  
+-----+  
12 rows in set  
Time: 0.004s  
  
MariaDB yash@haribol64 in prac_8 > select name from employee where deptno in (select deptno from employee where name = 'PATEL AKSHAR');  
+-----+  
| name |  
+-----+  
| AASHRI SHARMA |  
| AVANI GAJJAR |  
| BHAVSAR NAITIK UTTAM |  
| PARIKH HET DARSHAN |  
| SONI AARYAN RAJENDRA |  
| PATEL UJJVAL KIRANBH |  
| PATEL AKSHAR |  
| PATEL DEEPKUMAR NAVA |  
| PATEL DHRUV MANOJKUM |  
+-----+  
9 rows in set  
Time: 0.003s  
  
MariaDB yash@haribol64 in prac_8 >   
  
(Semi-colon [;] will end the line) [F3] Multiline: ON
```

Name - Yash Lakhtariya

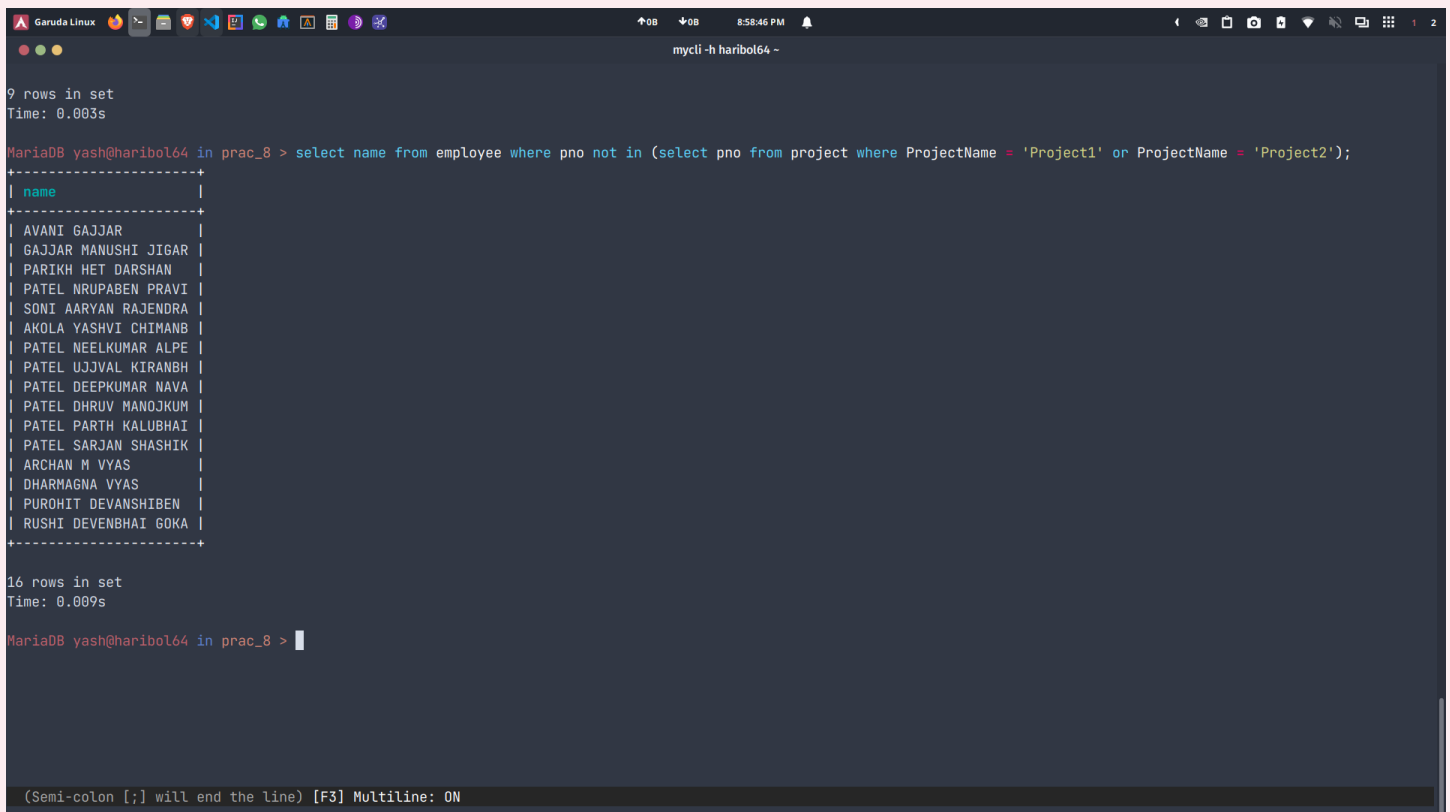
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

6. Display employee name who is not working on Project1 or Project2.

```
select name from employee where pno not in (select pno from
project where ProjectName = 'Project1' or ProjectName =
'Project2');
```

A screenshot of a terminal window titled 'Garuda Linux' with a dark theme. The terminal shows the execution of an SQL query in a MySQL environment. The query is: 'select name from employee where pno not in (select pno from project where ProjectName = 'Project1' or ProjectName = 'Project2');'. The output displays 16 employee names in a table format. The terminal also shows the time taken for the query (0.009s) and the prompt 'MariaDB yash@haribol64 in prac_8 >'.

```
9 rows in set
Time: 0.003s

MariaDB yash@haribol64 in prac_8 > select name from employee where pno not in (select pno from project where ProjectName = 'Project1' or ProjectName = 'Project2');
+-----+
| name |
+-----+
| AVANI GAJJAR |
| GAJJAR MANUSHI JIGAR |
| PARIKH HET DARSHAN |
| PATEL NRUPABEN PRAVI |
| SONI AARYAN RAJENDRA |
| AKOLA YASHVI CHIMANB |
| PATEL NEELKUMAR ALPE |
| PATEL UJJVAL KIRANBH |
| PATEL DEEPKUMAR NAVA |
| PATEL DHRUV MANOJKUM |
| PATEL PARTH KALUBHAI |
| PATEL SARJAN SHASHIK |
| ARCHAN M VYAS |
| DHARMAGNA VYAS |
| PUROHIT DEVANSHIBEN |
| RUSHI DEVENBHAI GOKA |
+-----+

16 rows in set
Time: 0.009s

MariaDB yash@haribol64 in prac_8 >

(Semi-colon [;] will end the line) [F3] Multiline: ON
```

7. Update salary of all employee by 25% who is working in Research Department.

```
update employee set salary = (1.25 * salary) where deptno in
(select deptno from department where deptname = 'Research');
```


Name - Yash Lakhtariya

Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

```
Garuda Linux 8:59:03 PM mycli -h haribol64 -
MariaDB yash@haribol64 in prac_8 > select name from employee where pno not in (select pno from project where ProjectName = 'Project1' or ProjectName = 'Project2');
+-----+
| name |
+-----+
| AVANI GAJJAR |
| GAJJAR MANUSHI JIGAR |
| PARIKH HET DARSHAN |
| PATEL NRUPABEN PRAVI |
| SONI AARYAN RAJENDRA |
| AKOLA YASHVI CHIMANB |
| PATEL NEELKUMAR ALPE |
| PATEL UJJVAL KIRANBH |
| PATEL DEEPKUMAR NAVA |
| PATEL DHRUV MANOJKUM |
| PATEL PARTH KALUBHAI |
| PATEL SARJAN SHASHIK |
| ARCHAN M VYAS |
| DHARMAGNA VYAS |
| PUROHIT DEVANSHIBEN |
| RUSHI DEVENBHAI GOKA |
+-----+

16 rows in set
Time: 0.009s

MariaDB yash@haribol64 in prac_8 > update employee set salary = (1.25 * salary) where deptno in (select deptno from department where deptname = 'Research');
Query OK, 9 rows affected
Time: 0.005s

MariaDB yash@haribol64 in prac_8 > 
```

```
Garuda Linux 8:59:39 PM mycli -h haribol64 -
MariaDB yash@haribol64 in prac_8 > select * from employee;
+-----+-----+-----+-----+-----+-----+
| empno | name | city | salary | deptno | pno |
+-----+-----+-----+-----+-----+-----+
| 1 | AASHRI SHARMA | Ahmedabad | 53299 | 104 | 1001 |
| 2 | AVANI GAJJAR | Baroda | 52814 | 104 | 1004 |
| 3 | BHAVSAR NAITIK UTTAM | Ahmedabad | 44713 | 104 | 1002 |
| 4 | GAJJAR MANUSHI JIGAR | Ahmedabad | 36876 | 103 | 1003 |
| 5 | KAMLI HEM MANOJ | Mumbai | 34739 | 102 | 1002 |
| 6 | PARIKH HET DARSHAN | Baroda | 61646 | 104 | 1003 |
| 7 | PATEL NRUPABEN PRAVI | Ahmedabad | 37063 | 101 | 1005 |
| 8 | SONI AARYAN RAJENDRA | Ahmedabad | 40909 | 104 | 1005 |
| 9 | AKOLA YASHVI CHIMANB | Ahmedabad | 49425 | 101 | 1004 |
| 10 | PATEL NEELKUMAR ALPE | Mumbai | 46006 | 102 | 1003 |
| 11 | PATEL RAJVI MANISHBH | Mumbai | 48155 | 101 | 1001 |
| 12 | PATEL TANISHKKUMAR A | Baroda | 40566 | 102 | 1002 |
| 13 | PATEL UJJVAL KIRANBH | Baroda | 52785 | 104 | 1005 |
| 14 | PATEL AKSHAR | Baroda | 52079 | 104 | 1001 |
| 15 | PATEL DEEPKUMAR NAVA | Mumbai | 54193 | 104 | 1003 |
| 16 | PATEL DHRUV MANOJKUM | Mumbai | 57353 | 104 | 1004 |
| 17 | PATEL HARSH JAGDISHB | Ahmedabad | 31788 | 101 | 1002 |
| 18 | PATEL HARSHIL RAMANL | Ahmedabad | 34114 | 101 | 1001 |
| 19 | PATEL PARTH KALUBHAI | Ahmedabad | 38811 | 101 | 1003 |
| 20 | PATEL SARJAN SHASHIK | Mumbai | 48408 | 101 | 1003 |
| 21 | ARCHAN M VYAS | Mumbai | 47057 | 101 | 1003 |
| 22 | DHARMAGNA VYAS | Mumbai | 35676 | 101 | 1005 |
| 23 | PUROHIT DEVANSHIBEN | Mumbai | 39840 | 102 | 1004 |
| 24 | DEVARSH MISTRY | Ahmedabad | 32724 | 103 | 1001 |
| 25 | RUSHI DEVENBHAI GOKA | Baroda | 48729 | 103 | 1003 |
+-----+-----+-----+-----+-----+-----+

25 rows in set
Time: 0.005s

MariaDB yash@haribol64 in prac_8 > 
```

Name - Yash Lakhtariya

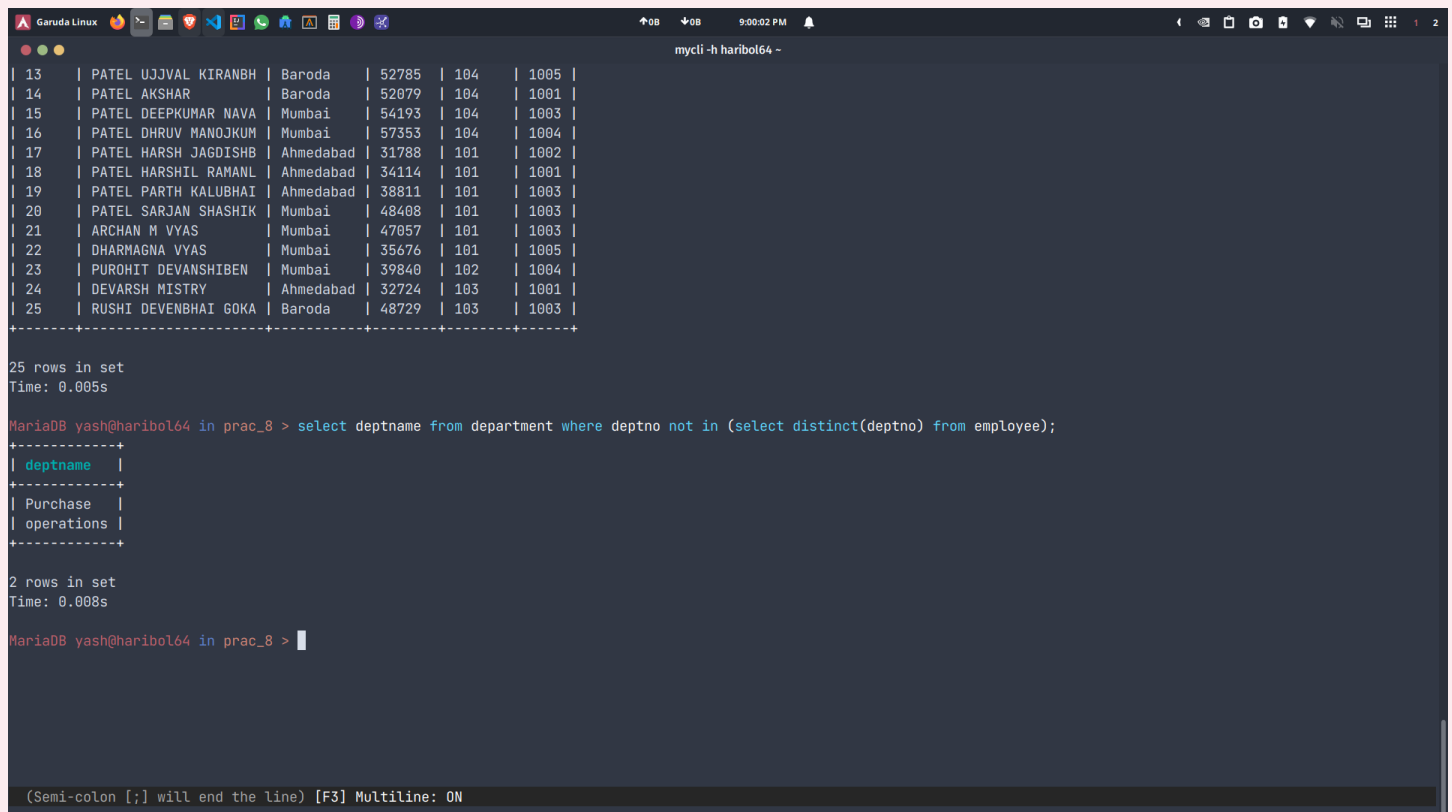
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

8. Display department name where No employee working.

```
select deptname from department where deptno not in (select
distinct(deptno) from employee);
```



The screenshot shows a terminal window in Garuda Linux with a MySQL command-line interface. The first query displays 25 rows of employee data. The second query shows the result of finding departments with no employees.

```
mycli -h haribol64 ~
| 13 | PATEL UJJVAL KIRANBH | Baroda | 52785 | 104 | 1005 |
| 14 | PATEL AKSHAR | Baroda | 52879 | 104 | 1001 |
| 15 | PATEL DEEPAKUMAR NAVA | Mumbai | 54193 | 104 | 1003 |
| 16 | PATEL DHRUV MANOJKUM | Mumbai | 57353 | 104 | 1004 |
| 17 | PATEL HARSH JAGDISHB | Ahmedabad | 31788 | 101 | 1002 |
| 18 | PATEL HARSHIL RAMANL | Ahmedabad | 34114 | 101 | 1001 |
| 19 | PATEL PARTH KALUBHAI | Ahmedabad | 38811 | 101 | 1003 |
| 20 | PATEL SARJAN SHASHIK | Mumbai | 48408 | 101 | 1003 |
| 21 | ARCHAN M VYAS | Mumbai | 47857 | 101 | 1003 |
| 22 | DHARMAGNA VYAS | Mumbai | 35676 | 101 | 1005 |
| 23 | PUROHIT DEVANSHIBEN | Mumbai | 39840 | 102 | 1004 |
| 24 | DEVARSH MISTRY | Ahmedabad | 32724 | 103 | 1001 |
| 25 | RUSHI DEVENBHAI GOKA | Baroda | 48729 | 103 | 1003 |
+-----+-----+-----+-----+-----+
25 rows in set
Time: 0.005s

MariaDB yash@haribol64 in prac_8 > select deptname from department where deptno not in (select distinct(deptno) from employee);
+-----+
| deptname |
+-----+
| Purchase |
| operations |
+-----+
2 rows in set
Time: 0.008s

MariaDB yash@haribol64 in prac_8 >

(Semi-colon [;] will end the line) [F3] Multiline: ON
```

Name - Yash Lakhtariya

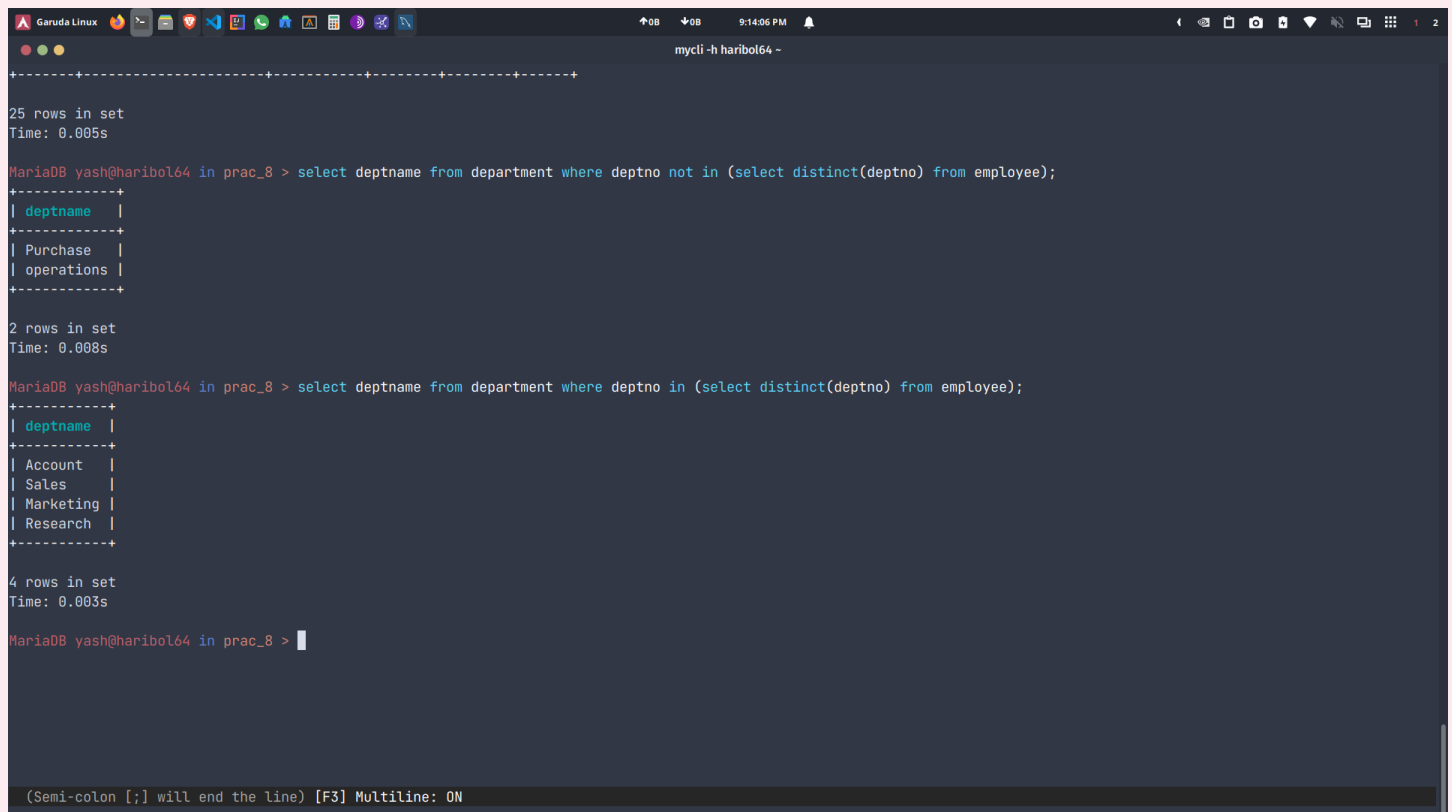
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

9. Display department name where if they have at least 1 employee within it.

```
select deptname from department where deptno in (select
distinct(deptno) from employee);
```



The screenshot shows a terminal window with a Linux desktop environment at the top. The terminal is running MySQL commands. The first command shows 25 rows in a set. The second command filters for departments with no employees, returning 2 rows: 'Purchase' and 'operations'. The third command filters for departments with at least one employee, returning 4 rows: 'Account', 'Sales', 'Marketing', and 'Research'.

```
Garuda Linux 9:14:06 PM mycli -h haribol64 -
+-----+
25 rows in set
Time: 0.005s

MariaDB yash@haribol64 in prac_8 > select deptname from department where deptno not in (select distinct(deptno) from employee);
+-----+
| deptname |
+-----+
| Purchase |
| operations |
+-----+

2 rows in set
Time: 0.008s

MariaDB yash@haribol64 in prac_8 > select deptname from department where deptno in (select distinct(deptno) from employee);
+-----+
| deptname |
+-----+
| Account |
| Sales |
| Marketing |
| Research |
+-----+

4 rows in set
Time: 0.003s

MariaDB yash@haribol64 in prac_8 >

(Semi-colon [;] will end the line) [F3] Multiline: ON
```

Name - Yash Lakhtariya

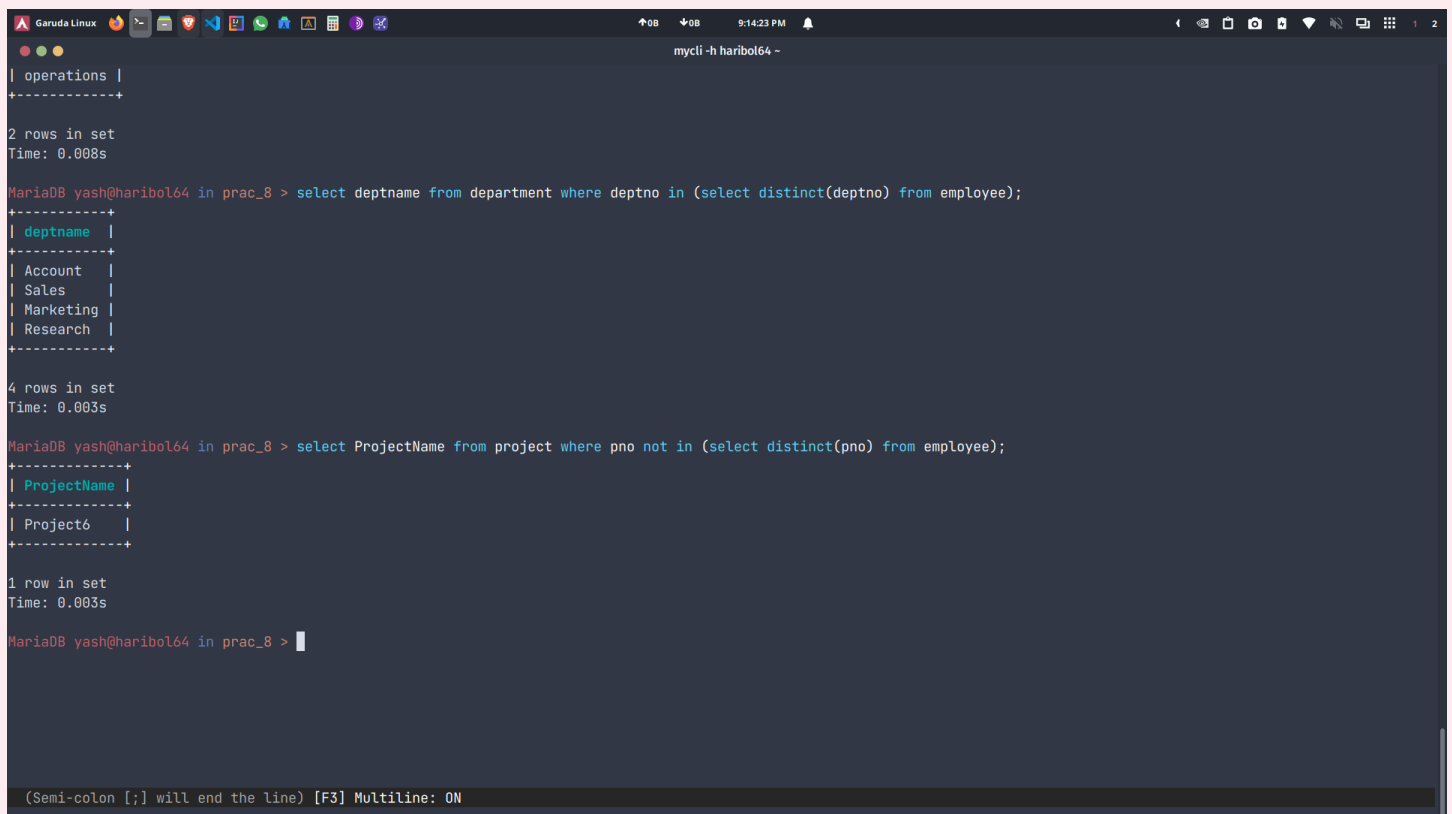
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

10.Display Project Name on which No employee working.

```
select ProjectName from project where pno not in (select
distinct(pno) from employee);
```



The screenshot shows a terminal window with the following content:

```
Garuda Linux
mycli -h haribol64 -

| operations |
+-----+
2 rows in set
Time: 0.008s

MariaDB yash@haribol64 in prac_8 > select deptname from department where deptno in (select distinct(deptno) from employee);
+-----+
| deptname |
+-----+
| Account  |
| Sales    |
| Marketing|
| Research |
+-----+
4 rows in set
Time: 0.003s

MariaDB yash@haribol64 in prac_8 > select ProjectName from project where pno not in (select distinct(pno) from employee);
+-----+
| ProjectName |
+-----+
| Project6    |
+-----+
1 row in set
Time: 0.003s

MariaDB yash@haribol64 in prac_8 >

(Semi-colon [;] will end the line) [F3] Multiline: ON
```

Name - Yash Lakhtariya

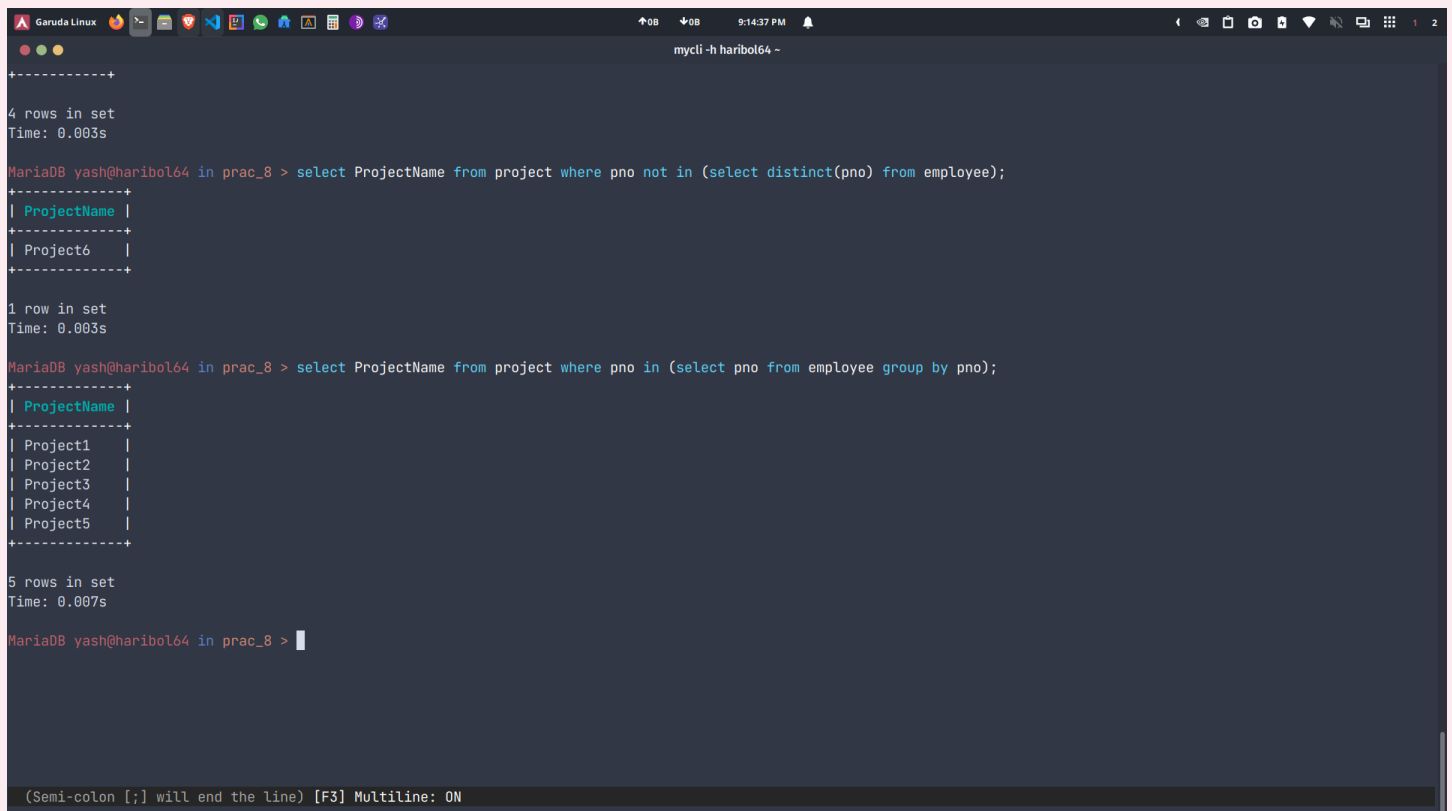
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

11.Display Project name where if they have at least 1 employee working on it.

```
select ProjectName from project where pno in (select pno from employee group by pno);
```



The screenshot shows a MySQL terminal window titled "mycli -h haribol64 -". The terminal displays two SQL queries and their results. The first query is a SELECT statement that filters projects based on whether they have at least one employee working on them. The second query is a similar SELECT statement that filters projects based on whether they have at least one employee working on them. The results are displayed in a table format.

```
-----+
4 rows in set
Time: 0.003s

MariaDB yash@haribol64 in prac_8 > select ProjectName from project where pno not in (select distinct(pno) from employee);
-----+
| ProjectName |
-----+
| Project6    |
-----+

1 row in set
Time: 0.003s

MariaDB yash@haribol64 in prac_8 > select ProjectName from project where pno in (select pno from employee group by pno);
-----+
| ProjectName |
-----+
| Project1    |
| Project2    |
| Project3    |
| Project4    |
| Project5    |
-----+

5 rows in set
Time: 0.007s

MariaDB yash@haribol64 in prac_8 > 
```

(Semi-colon [;] will end the line) [F3] Multiline: ON

Name - Yash Lakhtariya

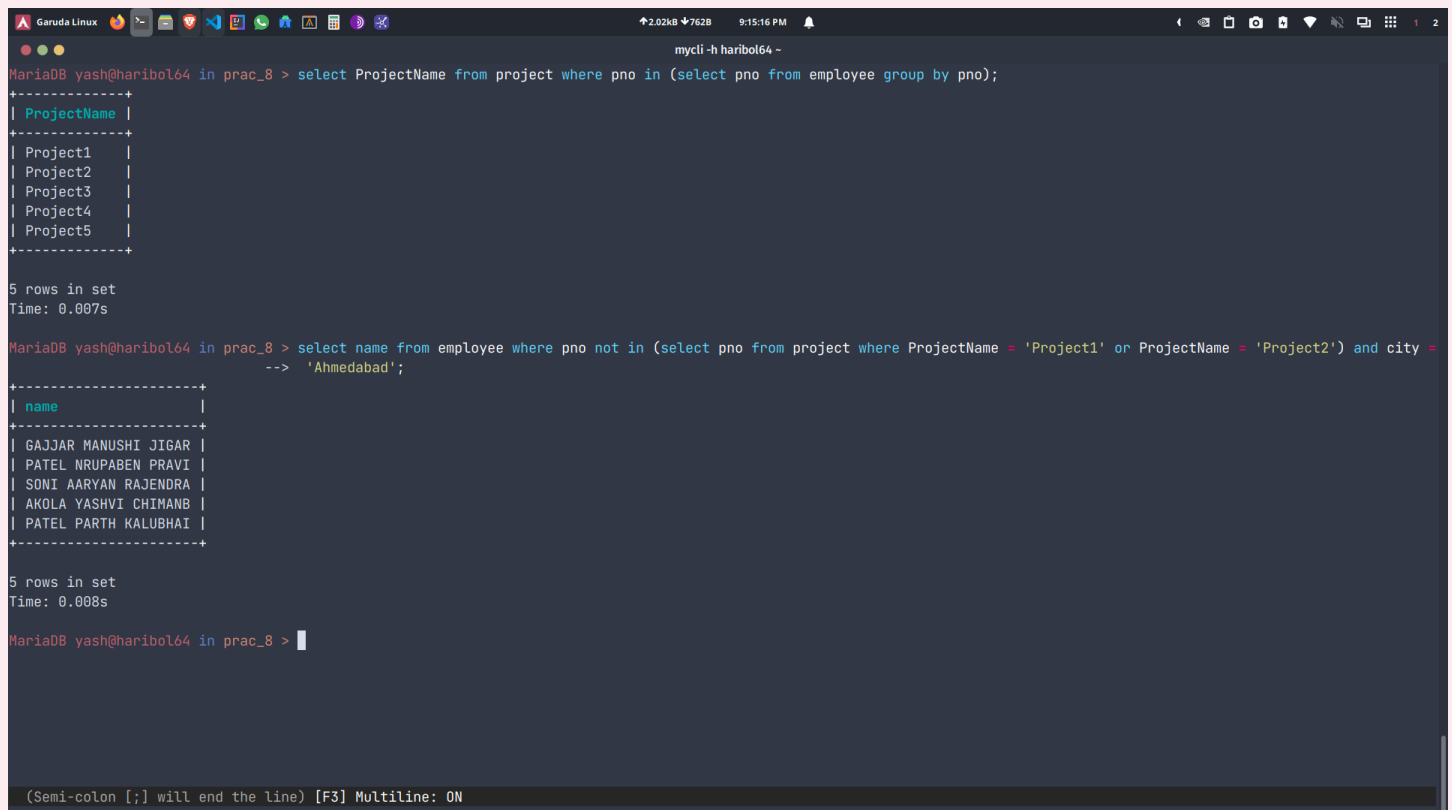
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

12. Display employee name who is working on Project1 or Project2 and city is Ahmedabad.

```
select name from employee where pno not in (select pno from
project where ProjectName = 'Project1' or ProjectName =
'Project2') and city = 'Ahmedabad';
```



The screenshot shows a terminal window with a MySQL database interface. The user is logged in as 'yash@haribol64' in the 'prac_8' database. The terminal displays two SQL queries and their results.

Query 1: `select ProjectName from project where pno in (select pno from employee group by pno);`

Result 1:

ProjectName
Project1
Project2
Project3
Project4
Project5

5 rows in set
Time: 0.007s

Query 2: `select name from employee where pno not in (select pno from project where ProjectName = 'Project1' or ProjectName = 'Project2') and city = 'Ahmedabad';`

Result 2:

name
GAJJAR MANUSHI JIGAR
PATEL NRUPABEN PRAVI
SONI AARYAN RAJENDRA
AKOLA YASHVI CHIMANB
PATEL PARTH KALUBHAI

5 rows in set
Time: 0.008s

The terminal also shows the prompt `MariaDB yash@haribol64 in prac_8 >` and a status bar at the bottom indicating "(Semi-colon [;] will end the line) [F3] Multiline: ON".

Name - Yash Lakhtariya

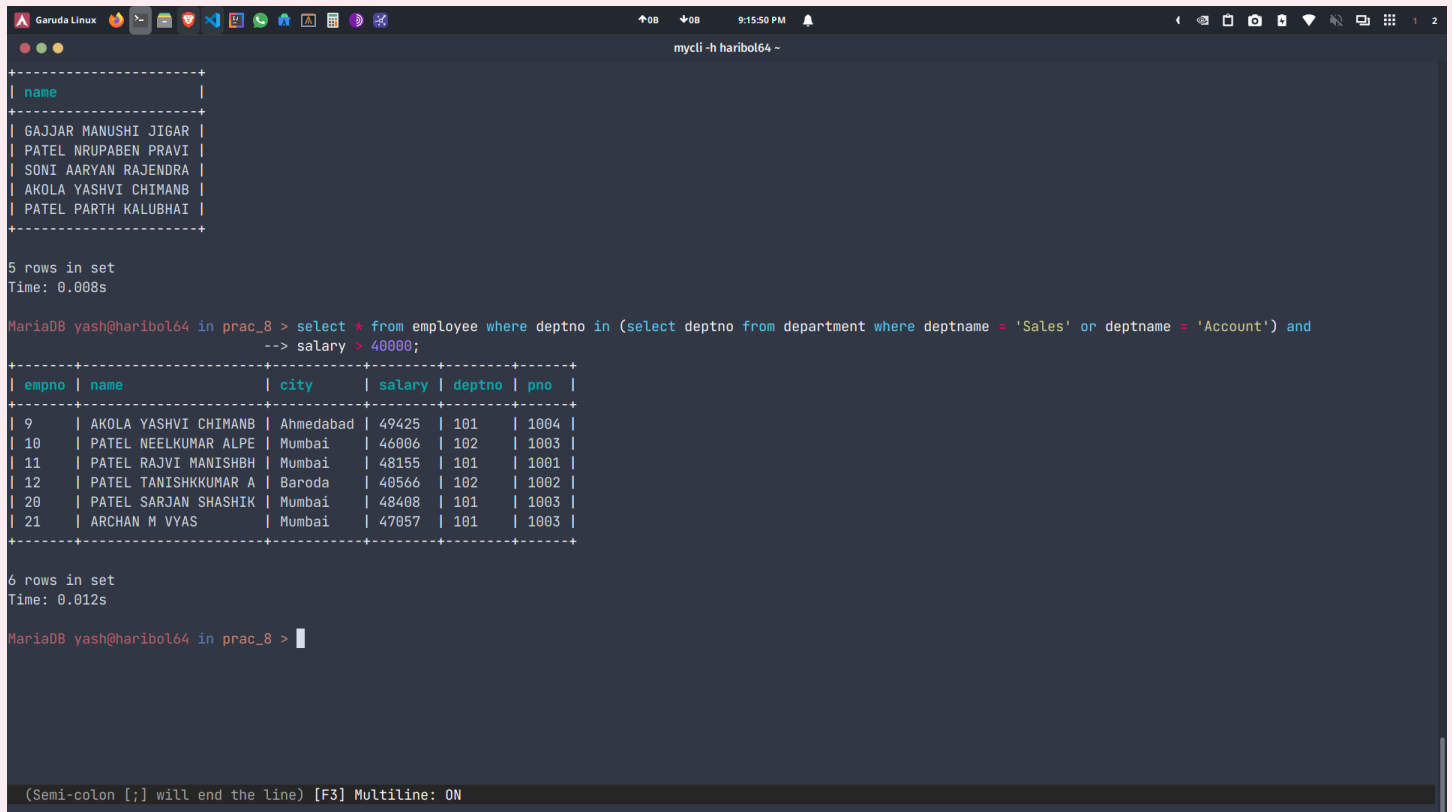
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

13. Get Employee details working under Sales and Account department and salary is more than 40000.

```
select * from employee where deptno in (select deptno from
department where deptname = 'Sales' or deptname = 'Account') and
salary > 40000;
```



The screenshot shows a MySQL terminal window with the following content:

```
mycli -h haribol64 -
```

```
+-----+
| name |
+-----+
| GAJJAR MANUSHI JIGAR |
| PATEL NRUPABEN PRAVI |
| SONI AARYAN RAJENDRA |
| AKOLA YASHVI CHIMANB |
| PATEL PARTH KALUBHAI |
+-----+
```

5 rows in set
Time: 0.008s

```
MariaDB [yash@haribol64 in prac_8] > select * from employee where deptno in (select deptno from department where deptname = 'Sales' or deptname = 'Account') and
--> salary > 40000;
```

```
+-----+-----+-----+-----+-----+-----+
| empno | name                | city      | salary | deptno | pno |
+-----+-----+-----+-----+-----+-----+
| 9      | AKOLA YASHVI CHIMANB | Ahmedabad | 49425  | 101    | 1004 |
| 10     | PATEL NEELKUMAR ALPE | Mumbai    | 46006  | 102    | 1003 |
| 11     | PATEL RAJVI MANISHBH | Mumbai    | 48155  | 101    | 1001 |
| 12     | PATEL TANISHKKUMAR A | Baroda    | 40566  | 102    | 1002 |
| 20     | PATEL SARJAN SHASHIK | Mumbai    | 48408  | 101    | 1003 |
| 21     | ARCHAN M VYAS        | Mumbai    | 47057  | 101    | 1003 |
+-----+-----+-----+-----+-----+-----+
```

6 rows in set
Time: 0.012s

```
MariaDB [yash@haribol64 in prac_8] >
```

(Semi-colon [;] will end the line) [F3] Multiline: ON

Name - Yash Lakhtariya

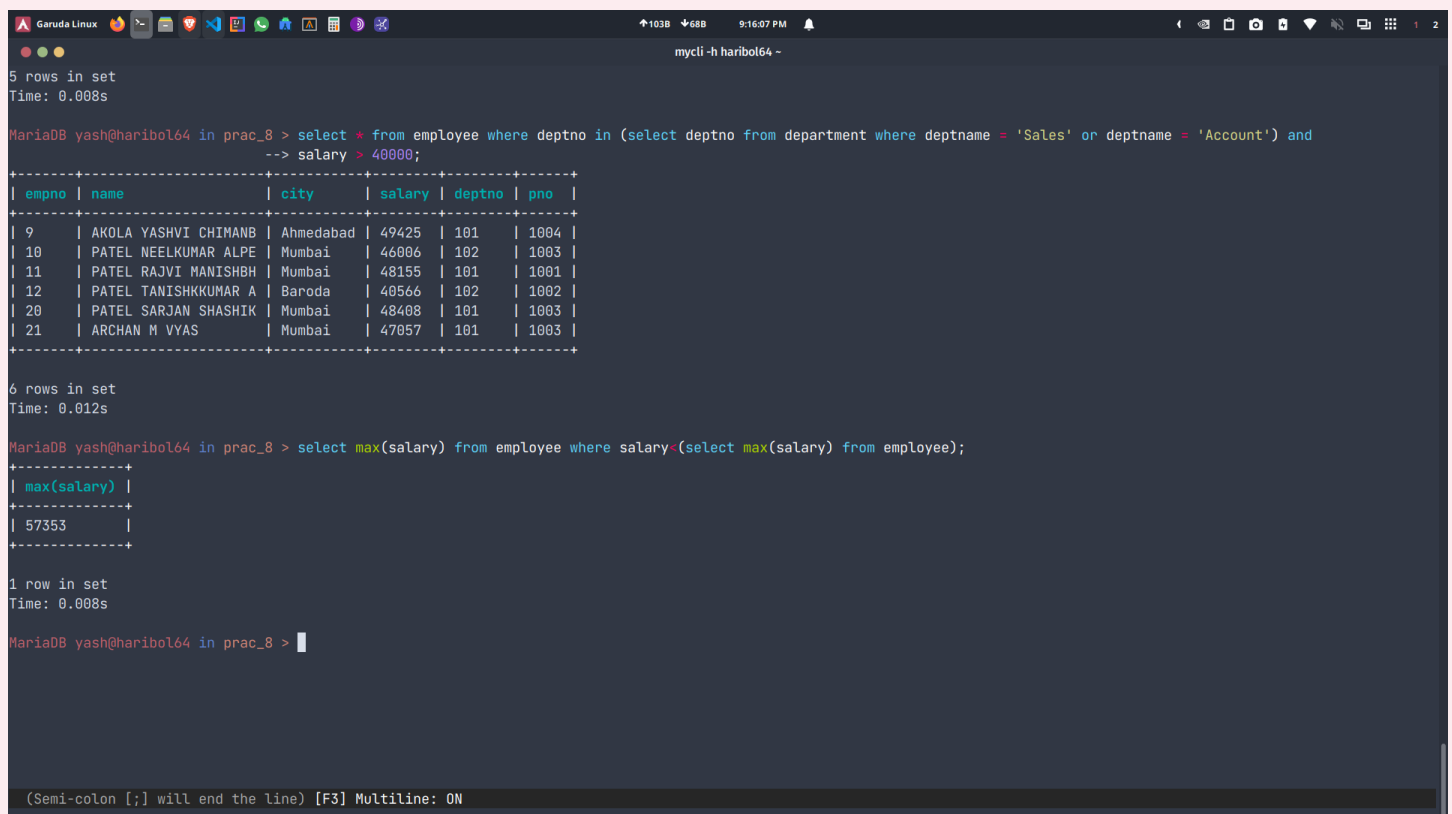
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

14.Display 2nd Highest salary from employee.

```
select max(salary) from employee where salary<(select max(salary)
from employee);
```



The screenshot shows a terminal window with the following content:

```
Garuda Linux
mycli -h haribol64 ~

5 rows in set
Time: 0.008s

MariaDB yash@haribol64 in prac_8 > select * from employee where deptno in (select deptno from department where deptname = 'Sales' or deptname = 'Account') and
--> salary > 40000;

+-----+-----+-----+-----+-----+-----+
| empno | name                | city      | salary | deptno | pno |
+-----+-----+-----+-----+-----+-----+
| 9      | AKOLA YASHVI CHIMANB | Ahmedabad | 49425  | 101    | 1004 |
| 10     | PATEL NEELKUMAR ALPE | Mumbai   | 46006  | 102    | 1003 |
| 11     | PATEL RAJVI MANISHBH | Mumbai   | 48155  | 101    | 1001 |
| 12     | PATEL TANISHKKUMAR A | Baroda   | 40566  | 102    | 1002 |
| 20     | PATEL SARJAN SHASHIK | Mumbai   | 48408  | 101    | 1003 |
| 21     | ARCHAN M VYAS        | Mumbai   | 47057  | 101    | 1003 |
+-----+-----+-----+-----+-----+-----+

6 rows in set
Time: 0.012s

MariaDB yash@haribol64 in prac_8 > select max(salary) from employee where salary<(select max(salary) from employee);

+-----+
| max(salary) |
+-----+
| 57353       |
+-----+

1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_8 > |

(Semi-colon [;] will end the line) [F3] Multiline: ON
```


Name - Yash Lakhtariya

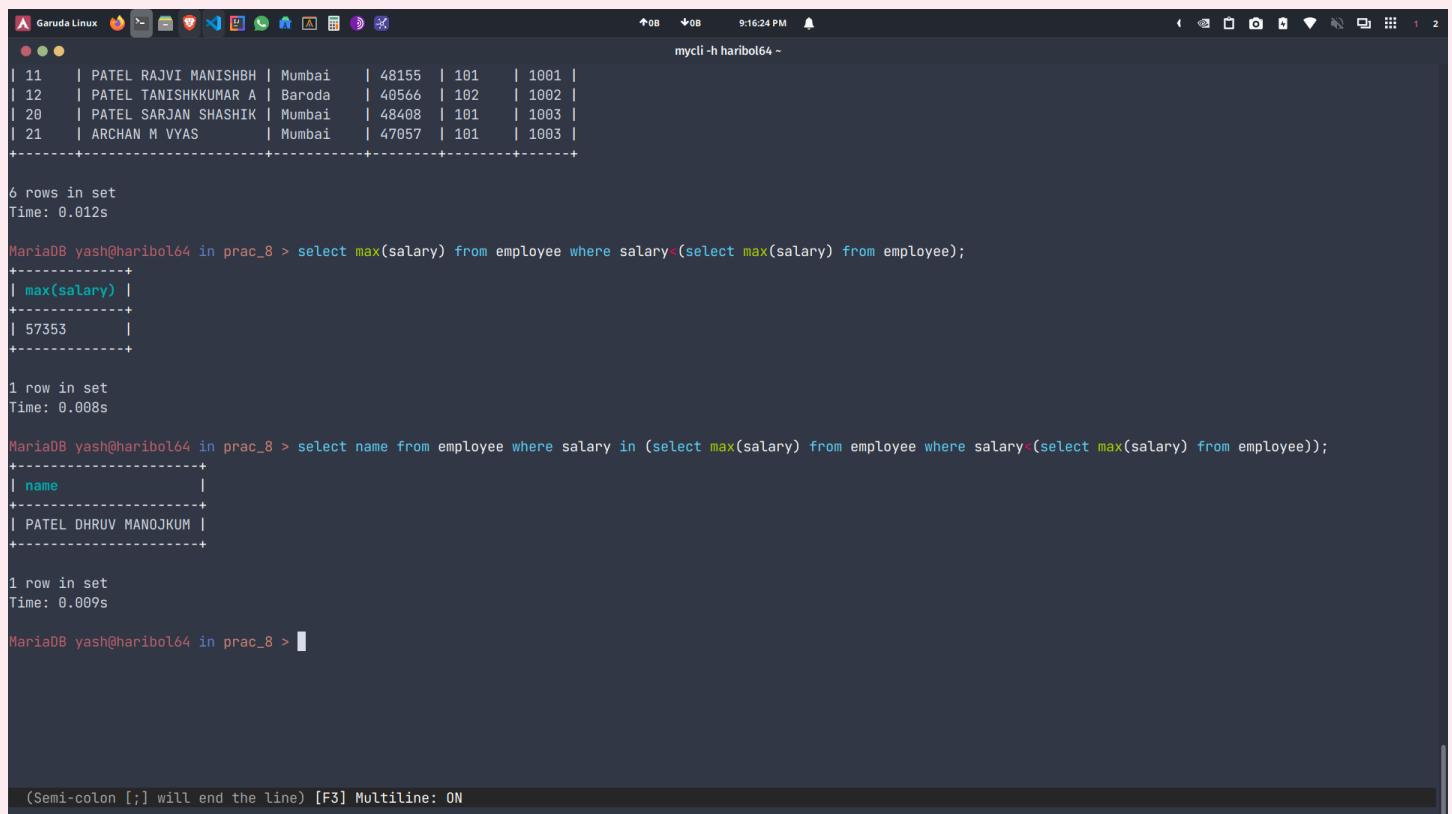
Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 8

15.Display name of employee who has 2nd Highest salary from employee

```
select name from employee where salary in (select max(salary) from
employee where salary<(select max(salary) from employee));
```



The screenshot shows a MySQL terminal window titled "mycli -h haribol64 ~". The terminal displays the following SQL queries and their results:

```
mysql> select * from employee;
+----+-----+-----+-----+-----+-----+
| 11 | PATEL RAJVI MANISHBH | Mumbai | 48155 | 101 | 1001 |
| 12 | PATEL TANISHKKUMAR A | Baroda | 40566 | 102 | 1002 |
| 20 | PATEL SARJAN SHASHIK | Mumbai | 48408 | 101 | 1003 |
| 21 | ARCHAN M VYAS | Mumbai | 47057 | 101 | 1003 |
+----+-----+-----+-----+-----+-----+
6 rows in set
Time: 0.012s

MariaDB yash@haribol64 in prac_8 > select max(salary) from employee where salary<(select max(salary) from employee);
+-----+
| max(salary) |
+-----+
| 57353 |
+-----+
1 row in set
Time: 0.008s

MariaDB yash@haribol64 in prac_8 > select name from employee where salary in (select max(salary) from employee where salary<(select max(salary) from employee));
+-----+
| name |
+-----+
| PATEL DHRUV MANOJKUM |
+-----+
1 row in set
Time: 0.009s

MariaDB yash@haribol64 in prac_8 >
```

(Semi-colon [;] will end the line) [F3] Multiline: ON