Practical - 8

| title | ◻ Creating views ( with and without check option) |
|---|---|
| | ◻ Dropping view |
| | ◻ selecting from a view |

mysql> Create view stud_info as select name, address from student where rollno<4;

O/P | Query OK, 0 rows affected (0.01 sec)

mysql> select * from stud_info;

O/P

| name | address |
|---|---|
| ram | delhi |
| Shyam | nagpur |
| Suraj | delhi |

3 rows in set (0.00 sec)

mysql> Create view student_marks as
→ select student.rollno, student.name,
→ stud_marks.science from student,
→ stud_marks where student.rollno = stu_marks.rollno;

O/P | Query OK, 0 rows affected (0.00 sec)

mysql> select * from Student marks;

\* ☐ with exist clause

mysql> select name, address from student where exists(select
\* from stu_marks where student.roll no=stu_marks.
roll no);

| o/p | name | address |
|-----|------|---------|
| | ram | delhi |
| | shyam | nagpur |
| | suraj | delhi |
| | shani | patna |
| | sony | delhi |

5 rows in set (0.00 sec)

EXPERIMENT:  No.

→ # Creating table stu_marks

mysql> create table stu_marks (Roll no int, science int, english int, math int);

o/p Query ok, 0 rows affected (0.00sec)

mysql> insert into stu marks values(1,40,50,60),
→ (2,30,50,90),
→ (3,45,55,65),
→ (4,95,99,98),
→ (5,49,59,69);

o/p Query ok, 5 rows affected (0.01 sec)
— Records:5 Duplicates:0 warnings:0

mysql> select * from stu_marks;

| o/p | Roll no | science | english | math |
|---|---|---|---|---|
| | 1 | 40 | 50 | 60 |
| | 2 | 30 | 50 | 90 |
| | 3 | 4X | 55 | 65 |
| | 4 | 95 | 99 | 98 |
| | 5 | 49 | 59 | 69 |

**✗** □ with in clause

mysql> select * from stu_marks where roll_no = (select roll n
from student where name="ram" and address="delh

O/P

| roll_no | science | english | math |
|---------|---------|---------|------|
| 1 | 40 | 80 | 6.0 |

1 row in set (0.00 sec)

mysql> select * from stu_marks where roll_no in (select
roll no from student where address="delhi");

O/P

| roll_no | science | english | math |
|---------|---------|---------|------|
| 1 | 40 | 50 | 60 |
| 3 | 45 | 55 | 65 |
| 5 | 49 | 59 | 69 |

3 rows in set (0.00 sec)

mysql> select * from stu_marks where rollno not in (select
roll no from student where address = "delhi");

O/P

| Roll_no | science | english | math |
|---------|---------|---------|------|
| 2 | 30 | 50 | 90 |
| 4 | 95 | 99 | 98 |

2 rows in set (0.00 sec)

title: Subqueries
☐ with in clause
☐ with exists clause

→ # creating a table student

mysql> create table student (rollno int, name varchar(20),
                            address varchar(20));

O/P  Query OK, 0 rows affected (0.02 sec)

→ # inserting values in student table

mysql> insert into student values (1, "ram", "delhi"),
    → (2, "shyam", "nagpur"),
    → (3, "suraj", "delhi"),
    → (4, "shani", "patna"),
    → (5, "sonu", "delhi");

O/P  Query ok, 5 rows affected (0.00 sec)
     Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from student;
O/P

| roll_no | name | address |
|---------|-------|---------|
| 1 | ram | delhi |
| 2 | shyam | nagpur |
| 3 | suraj | delhi |
| 4 | shani | patna |
| 5 | sonu | delhi |

rows in set (0.00 sec)

Teacher's Sign. :

(20)).

| O/P emp_id | emp_name | emp_id | address |
|---|---|---|---|
| 1 | Shankar | 1 | delhi |
| 2 | narayan | 2 | mumbai |
| 3 | Saurabh | 3 | nagpur |

3 rows in set (0.00 sec)

→ ② Natural join

mysql>select * from employee natural join employee detail
where empolyee.emp_id = employee.detail.emp_id;

| O/P emp_id | emp_name | address |
|---|---|---|
| 1 | Shankar | delhi |
| 2 | narayan | mumbai |
| 3 | Saurabh | nagpur |

3 rows in set (0.00 sec)

* ◻ outer join
   → right outer join

mysql> select * from employee right outer join employee detail
on (employee.emp_id = employee detail.emp id);

| O/P emp_id | emp_name | emp_id | address |
|---|---|---|---|
| 1 | Shankar | 1 | delhi |
| 2 | narayan | 2 | mumbai |
| 3 | Saurabh | 3 | nagpur |
| Null | Null | 4 | Kolhapur |
| Null | Null | 6 | romnagar |

5 rows in set (0.00 sec)

→ left outer join

mysql> select * from employee left outer join employee_detail on (employee.emp_id = employee_detail.emp_id);

O/P

| emp_id | emp_name | emp_id | address |
|--------|----------|--------|---------|
| 1 | Shankar | 1 | delhi |
| 2 | narayan | 2 | mumbai |
| 3 | Saurabh | 3 | nagpur |
| 5 | Sachin | Null | Null |
| 7 | Samarth | Null | Null |

5 rows in set (0.00 sec)

→ # Creating a table employee_detail

mysql> create table employee_detail(emp_id int, address varchar(20)`;

O/P   Query OK, 0 row affected (0.01 sec)

mysql> insert into employee_detail values (1,"delhi"),
→ (2, "mumbai"),
→ (3, "nagpur"),
→ (4, "kolhapur"),
→ (5, "ramnagar");

O/P   Query OK, 5 row affected (0.01 sec)
      Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from employee_detail;

| O/P | emp_id | address |
|-----|--------|---------|
|     | 1      | delhi   |
|     | 2      | mumbai  |
|     | 3      | nagpur  |
|     | 4      | kolhapur|
|     | 5      | ramnagar|

* in inner join

mysql> select * from employee inner join employee_detail
      where employee.emp_id = employee_detail.emp_id;

Title: ☐ inner join
☐ outer join

→ # Creating a table employee

mysql> Create table employee (emp_id int, emp_name varchar(20));

O/P  Query ok, 0 rows affected (0.01 sec)

→ # Inserting values in employee table.

mysql> insert into employee values (1, "shankar"),
→ (2, "narayan")
→ (3, "saurabh")
→ (5, "sachin")
→ (7, "samarth");

O/P  Query ok, 5 rows affected (0.01 sec)
     Records: 5  Duplicates: 0  warnings: 0

mysql> select * from employee;

O/P

| emp_id | emp_name |
|--------|----------|
| 1 | shankar |
| 2 | narayan |
| 3 | saurabh |
| 5 | sachin |
| 7 | samarth |

5 row in set (0.00 sec)

O|P

| rollno | name | science |
|--------|-------|---------|
| 1 | ram | 40 |
| 2 | shyam | 30 |
| 3 | suraj | 45 |
| 4 | shani | 95 |
| 5 | sony | 49 |

5 rows in set (0.01 sec)