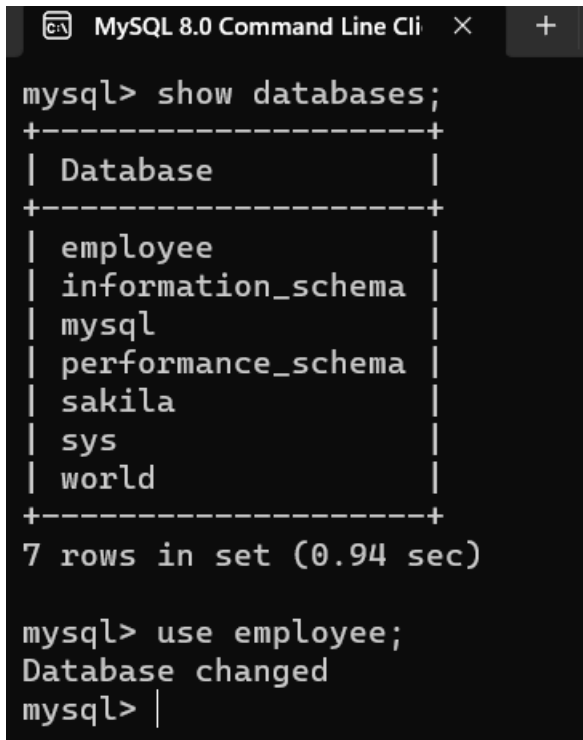


MySQL Assignment-1

CREATION:-

create database employee;

use employee;



```
mysql> show databases;
+-----+
| Database |
+-----+
| employee |
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
7 rows in set (0.94 sec)

mysql> use employee;
Database changed
mysql> |
```

QUESTION 1:

Assignment-1 --- Create two tables: EmployeeDetails and EmployeeSalary. AND

Columns for EmployeeDetails: EmpId FullName ManagerId DateOfJoining City && Columns for EmployeeSalary: : EmpId Project Salary Variable.

ANSWER:

Create EmployeeDetails table:-

create table employee_details(

-> empId int,

-> empFullName varchar(20),

-> managerId int,

-> dataOfJoin date,

-> empCity varchar(20));

Create EmployeeSalary table:-

```
create table employee_salary(
```

```
-> empId int,
```

```
-> project varchar(20),
```

```
-> salary int);
```

show tables;

```
mysql> show tables;
+-----+
| Tables_in_employee |
+-----+
| employee_details    |
| employee_salary     |
+-----+
2 rows in set (0.90 sec)
```

INSERTION:-

```
/* ADD RECORDS IN BOTH TABLES */
```

1) employee_details TABLE values:

```
insert into employee_details(empId,empFullName,managerId,dataOfJoin,empCity)
values(101,"Manik",1001,"1995-02-01","Mumbai"),(102,"Jackie",NULL,"2021-07-
05","Pune"),(103,"Sakthi",1002,"2020-02-08","Kolkata"),(104,"Mythili",1003,"2020-06-
03","Chennai"),(105,"Maria",NULL,"2023-04-08","Bangalore"),(106,"Sankar",1004,"1990-01-
09","Delhi"),(107,"Raja",NULL,"2022-11-20","Hyderabad"),(102,"Jackie",1005,"2021-07-
05","Pune"),(108,"Jaya",NULL,"2022-08-04","Trivandrum"),(109,"Mehta",NULL,"2023-05-
03","Chennai"),(110,"Varun",NULL,"2023-07-30","Pune");
```

2) employee_salary TABLE values:

```
insert into
employee_salary(empId,Project,Salary)values(101,"P1",75000.00),(102,"P2",30000.00),(103,
"P1",45000.00),(104,"P2",42000.00),(105,"P1",20000.00),(106,"P2",67000.00),(107,"P2",400
00.00),(108,"P1",28000.00);
```

select * from employee_details;

```
mysql> select * from employee_details;
```

empId	empFullName	managerId	dateOfJoin	empCity
101	Manik	1001	1995-02-01	Mumbai
102	Jackie	1005	2021-07-05	Pune
103	Sakthi	1002	2020-02-08	Kolkata
104	Mythili	1003	2020-06-03	Chennai
105	Maria	NULL	2023-04-08	Bangalore
106	Sankar	1004	1990-01-09	Delhi
107	Raja	NULL	2022-11-20	Hyderabad
102	Jackie	1005	2021-07-05	Pune
108	Jaya	NULL	2022-08-04	Trivandrum
109	Mehta	NULL	2023-05-03	Chennai
110	Varun	NULL	2023-07-30	Pune
111	Yash	1006	1987-11-15	Ahmedhabad
112	Subhash	1007	1994-10-26	Lucknow

13 rows in set (0.00 sec)

select * from employee_salary;

```
mysql> select * from employee_salary;
```

empId	project	salary
101	P1	75000
102	P2	30000
103	P1	45000
104	P2	42000
105	P1	20000
106	P2	67000
107	P2	40000
108	P1	28000
111	P1	NULL
112		20000

10 rows in set (0.00 sec)

QUESTION 2: SQL Query to fetch records that are present in one table but not in another table.

ANSWER:-

Using NOT IN:

```
select * from employee_details where empId not in(select empId from employee_salary);
```

Using NOT EXISTS:

select * from employee_details where not exists(select empId from employee_salary where employee_details.empId = employee_salary.empId);

```
mysql> select * from employee_details where empId not in(select empId from employee_salary);
+-----+-----+-----+-----+-----+
| empId | empFullName | managerId | dateOfJoin | empCity |
+-----+-----+-----+-----+-----+
| 109 | Mehta | NULL | 2023-05-03 | Chennai |
| 110 | Varun | NULL | 2023-07-30 | Pune |
+-----+-----+-----+-----+-----+
2 rows in set (0.09 sec)
```

QUESTION 3: SQL query to fetch all the employees who are not working on any project.

ANSWER:-

select empId, empFullName from employee_details where not exists(select Project from employee_salary where employee_details.empId = employee_salary.empId);

```
mysql> select empId, empFullName from employee_details where not exists(select Project from employee_salary where employee_details.empId = employee_salary.e
mpId);
+-----+-----+
| empId | empFullName |
+-----+-----+
| 109 | Mehta |
| 110 | Varun |
+-----+-----+
2 rows in set (0.07 sec)
```

QUESTION 4: SQL query to fetch all the Employees from EmployeeDetails who joined in the Year 2020.

ANSWER:-

select * from employee_details where year(dateOfJoin)=2020;

```
mysql> select * from employee_details where year(dateOfJoin)=2020;
+-----+-----+-----+-----+-----+
| empId | empFullName | managerId | dateOfJoin | empCity |
+-----+-----+-----+-----+-----+
| 103 | Sakthi | 1002 | 2020-02-08 | Kolkata |
| 104 | Mythili | 1003 | 2020-06-03 | Chennai |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

select * from employee_details where dateOfJoin between date '2020-01-01' and date '2020-12-31';

QUESTION 5: Fetch all employees from EmployeeDetails who have a salary record in EmployeeSalary.

ANSWER:-

Using INNER JOIN:-

```
select ed.empId, ed.empFullName, es.salary from employee_details ed join
employee_salary es on ed.empId=es.empId;
```

Using SUB-QUERY:-

```
select * from employee_details ed where exists(select * from employee_salary es where
ed.empId=es.empId);
```

```
mysql> select ed.empId, ed.empFullName, es.salary from employee_details ed join employee_salary es on ed.empId=es.empId;
+-----+-----+-----+
| empId | empFullName | salary |
+-----+-----+-----+
| 101 | Manik | 75000 |
| 102 | Jackie | 30000 |
| 103 | Sakthi | 45000 |
| 104 | Mythili | 42000 |
| 105 | Maria | 20000 |
| 106 | Sankar | 67000 |
| 107 | Raja | 40000 |
| 102 | Jackie | 30000 |
| 108 | Jaya | 28000 |
| 111 | Yash | NULL |
| 112 | Subhash | 20000 |
+-----+-----+-----+
11 rows in set (0.07 sec)
```

QUESTION 6: Write an SQL query to fetch a project-wise count of employees.

ANSWER:-

```
select Project, count(empId) as ProjectWise_Emp_Count from employee_salary group by Project;
```

```
mysql> select Project, count(empId) as ProjectWise_Emp_Count from employee_salary group by Project;
+-----+-----+
| Project | ProjectWise_Emp_Count |
+-----+-----+
| P1 | 5 |
| P2 | 4 |
| | 1 |
+-----+-----+
3 rows in set (0.05 sec)
```

QUESTION 7: Fetch employee names and salaries even if the salary value is not present for the employee.

ANSWER:-

```
select ed.empFullName, es.Salary from employee_details ed left join employee_salary es on
ed.empId=es.empId;
```

```
mysql> select ed.empFullName, es.Salary from employee_details ed left join employee_salary es on ed.empId=es.empId;
```

empFullName	Salary
Manik	75000
Jackie	30000
Sakthi	45000
Mythili	42000
Maria	20000
Sankar	67000
Raja	40000
Jackie	30000
Jaya	28000
Mehta	NULL
Varun	NULL
Yash	NULL
Subhash	20000

```
13 rows in set (0.13 sec)
```

QUESTION 8: Write an SQL query to fetch all the Employees who are also managers.

ANSWER:-

```
select * from employee_details where managerID;
```

```
mysql> select * from employee_details where managerID;
```

empId	empFullName	managerId	dateOfJoin	empCity
101	Manik	1001	1995-02-01	Mumbai
102	Jackie	1005	2021-07-05	Pune
103	Sakthi	1002	2020-02-08	Kolkata
104	Mythili	1003	2020-06-03	Chennai
106	Sankar	1004	1990-01-09	Delhi
102	Jackie	1005	2021-07-05	Pune
111	Yash	1006	1987-11-15	Ahmedhabad
112	Subhash	1007	1994-10-26	Lucknow

```
8 rows in set (0.00 sec)
```

QUESTION 9: Write an SQL query to fetch duplicate records from EmployeeDetails.

ANSWER:-

```
select empId, count(*) as DuplicateCount from employee_details group by empId having count(*)>1;
```

```
mysql> select empId, count(*) as DuplicateCount from employee_details group by empId having count(*)>1;
```

empId	DuplicateCount
102	2

```
1 row in set (0.28 sec)
```

