

Assignment 1

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- **Roll No.:** 31337
- **Batch:** L3

```
mysql> use t31337db;
Database changed
mysql> show tables;
Empty set (0.00 sec)
```

Creating Department Table

```
mysql> create table Dept(Dept_id int,dname varchar(10),dlocation varchar(20),primary key(Dept_id));
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> desc Dept;
```

Field	Type	Null	Key	Default	Extra
Dept_id	int(11)	NO	PRI	0	
dname	varchar(10)	YES		NULL	
dlocation	varchar(20)	YES		NULL	

3 rows in set (0.00 sec)

Creating Employee Table

```
mysql> create table Employee(Emp_id int,Dept_id int,fname varchar(10),lname varchar(10),designation
varchar(10),salary double,JoinDate DATE,primary key(Emp_id),foreign key(Dept_id) references Dept(Dept_id)
on delete cascade);
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> desc Employee;
```

Field	Type	Null	Key	Default	Extra
Emp_id	int(11)	NO	PRI	0	
Dept_id	int(11)	YES	MUL	NULL	
fname	varchar(10)	YES		NULL	
lname	varchar(10)	YES		NULL	
designation	varchar(10)	YES		NULL	
salary	double	YES		NULL	
JoinDate	date	YES		NULL	

7 rows in set (0.00 sec)

Creating Project Table

```
mysql> create table Project
-> (
-> Proj_id int,
-> Dept_id int,
-> Pname varchar(10),
-> Plocation varchar(10),
-> Pcost double,
-> Pyear YEAR,
-> primary key(Proj_id),
-> foreign key(Dept_id) references Dept(Dept_id) on delete cascade
-> );
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> desc Project;
```

Field	Type	Null	Key	Default	Extra
Proj_id	int(11)	NO	PRI	0	
Dept_id	int(11)	YES	MUL	NULL	
Pname	varchar(10)	YES		NULL	
Plocation	varchar(10)	YES		NULL	
Pcost	double	YES		NULL	
Pyear	year(4)	YES		NULL	

6 rows in set (0.00 sec)

```
mysql> show tables;
```

Displaying the Tables In t31337 Database

Tables_in_t31323db
Dept
Employee
Project

3 rows in set (0.00 sec)

Inserting into Dept Table

```
mysql> insert into Dept values(1,'Computer','Pune');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Dept values(2,'IT','Pune');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Dept values(3,'ENTC','Mumbai');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Dept values(4,'Civil','Nagpur');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into Dept values(5,'Auto Mobile','Nagpur');
Query OK, 1 row affected, 1 warning (0.02 sec)
```

```
mysql> select * from Dept;
```

Dept_id	dname	dlocation
1	Computer	Pune
2	IT	Pune
3	ENTC	Mumbai
4	Civil	Nagpur
5	Auto Mobil	Nagpur

5 rows in set (0.00 sec)

Inserting into Employee Table

```
mysql> insert into Employee values(31323,1,'Gautam','Khaire','Software Engineer',350000.75, '2024-05-06');
Query OK, 1 row affected, 2 warnings (0.00 sec)
```

```
mysql> insert into Employee values(31324,1,'Shrikant','Kharat','Software Engineer',250000.75, '2024-10-06');
Query OK, 1 row affected, 2 warnings (0.01 sec)
```

```
mysql> insert into Employee values(31980,2,'Chanchal','Wadhwa','Software Engineer',3000000.75, '2024-12-09');
Query OK, 1 row affected, 2 warnings (0.02 sec)
```

```
mysql> insert into Employee values(31981,2,'Yash','Sonawane','Software Engineer',3500000.75, '2024-12-09');
Query OK, 1 row affected, 2 warnings (0.02 sec)
```

```
mysql> insert into Employee values(31307,1,'Shivam','Dhonde','Manager',3500000.75,'2024-10-15');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into Employee values(31337,1,'Ankush','Mehta','Manager',2500000.75,'2024-1-15');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Employee values(31315,1,'Jay','Mehta','Product Manager',100000.75,'2024-9-15');
Query OK, 1 row affected, 1 warning (0.03 sec)
```

```
mysql> insert into Employee values(31390,5,'Yash','Jadhav','Site Engineer',104000.75,'2023-9-15');
Query OK, 1 row affected, 1 warning (0.01 sec)
```

```
mysql> insert into Employee values(31590,4,'Vishal','Kundan','Auto Engineer',103000.75,'2022-9-15');
Query OK, 1 row affected, 1 warning (0.01 sec)
```

```
mysql> insert into Employee values(41590,4,'Samyak','Kasturkar','Engineer',100200.05,'2022-10-15');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into Employee values(31309,1,'Tanmay','Jadhav','Software Engineer',200200.55,'2024-12-05');
Query OK, 1 row affected, 1 warning (0.01 sec)
```

```
mysql> select * from Employee;
```

Emp_id	Dept_id	fname	lname	designation	salary	JoinDate
31307	1	Shivam	Dhonde	Manager	3500000.75	2024-10-15
31309	1	Tanmay	Jadhav	Software E	200200.55	2024-12-05
31315	1	Jay	Mehta	Product Ma	100000.75	2024-09-15
31323	1	Gautam	Khaire	Software E	350000.75	2024-05-06
31324	1	Shrikant	Kharat	Software E	250000.75	2024-10-06
31337	1	Ankush	Mehta	Manager	50000000	2024-01-15
31390	5	Yash	Jadhav	Site Engin	104000.75	2023-09-15
31590	4	Vishal	Kundan	Auto Engin	103000.75	2022-09-15
31980	2	Chanchal	Wadhwa	Software E	3000000.75	2024-12-09
31981	2	Yash	Sonawane	Software E	3500000.75	2024-12-09
41590	4	Samyak	Kasturkar	Engineer	100200.05	2022-10-15

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

Inserting into Project Table

```
mysql> insert into Project values(1,1,'Mobile App','Pune',300000,2024);
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into Project values(2,1,'Blockchain','Mumbai',500000,2022);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Project values(3,3,'Building','Mumbai',200000,2022);
Query OK, 1 row affected (0.00 sec)
```

Displaying the Project Table

```
mysql> select * from Project;
```

Proj_id	Dept_id	Pname	Plocation	Pcost	Pyear
1	1	Mobile App	Pune	300000	2024
2	1	Blockchain	Mumbai	500000	2022
3	3	Building	Mumbai	200000	2022

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

Displaying the Department Table

```
mysql> select * from Dept;
```

Dept_id	dname	dlocation
1	Computer	Pune
2	IT	Pune
3	ENTC	Mumbai
4	Civil	Nagpur
5	Auto Mobil	Nagpur

```
+-----+-----+-----+
5 rows in set (0.00 sec)
```

Displaying the Department Table

```
mysql> select * from Employee;
```

Emp_id	Dept_id	fname	lname	designation	salary	JoinDate
31307	1	Shivam	Dhonde	Manager	3500000.75	2024-10-15
31309	1	Tanmay	Jadhav	Software E	200200.55	2024-12-05
31315	1	Jay	Mehta	Product Ma	100000.75	2024-09-15
31323	1	Gautam	Khaire	Software E	350000.75	2024-05-06
31324	1	Shrikant	Kharat	Software E	250000.75	2024-10-06
31337	1	Ankush	Mehta	Manager	50000000	2024-01-15
31390	5	Yash	Jadhav	Site Engin	104000.75	2023-09-15
31590	4	Vishal	Kundan	Auto Engin	103000.75	2022-09-15
31980	2	Chanchal	Wadhwa	Software E	3000000.75	2024-12-09
31981	2	Yash	Sonawane	Software E	3500000.75	2024-12-09
41590	4	Samyak	Kasturkar	Engineer	100200.05	2022-10-15

```
11 rows in set (0.01 sec)
```

```
mysql> insert into Employee
```

```
values(31333,1,'Pradnya','Kumar','Manager',98129.89,2024-10-07);
```

```
Query OK, 1 row affected, 1 warning (0.02 sec)
```

Assignment No. 2B Queries :-

Q2. Display all Employee details with Department 'Computer' and 'IT' and Employee first name starting with 'p' or 'h'.

```
mysql> select * from Employee where Dept_id in (1,2) and fname like 'P%'
or fname like 'H%';
```

Emp_id	Dept_id	fname	lname	designation	salary	JoinDate
31333	1	Pradnya	Kumar	Manager	98129.89	2020-10-07
31335	2	Pranjal	Deasi	Product Ma	90329.89	2020-10-07

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

Q3. Lists the number of different Employee Positions.

```
mysql> select distinct designation from Employee;
```

designation
Manager
Software E
Product Ma
Site Engin
Auto Engin
Engineer

```

+-----+
6 rows in set (0.00 sec)
mysql> select COUNT(designation) from Employee;
+-----+
| COUNT(designation) |
+-----+
|                13 |
+-----+
1 row in set (0.00 sec)

mysql> select COUNT(distinct designation) from Employee;
+-----+
| COUNT(distinct designation) |
+-----+
|                        6 |
+-----+
1 row in set (0.00 sec)

```

Q4. Give 10% increase in Salary of the Employee whose joinDate before 2015.

```

mysql> update Employee set JoinDate='2013-10-07' where Emp_id=31335;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0
mysql> select 1.1*salary from Employee where JoinDate<='2015-01-01';
+-----+
| 1.1*salary |
+-----+
| 99362.879 |
+-----+
1 row in set (0.00 sec)
mysql> update Employee set salary=1.1*salary WHERE JoinDate<='2015-01-01';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0
mysql> select * from Employee WHERE JoinDate<='2015-01-01';
+-----+-----+-----+-----+-----+-----+-----+-----+
| Emp_id | Dept_id | fname   | lname  | designation | salary    | JoinDate |
+-----+-----+-----+-----+-----+-----+-----+
| 31335  | 2       | Pranjal | Deasi  | Product Ma  | 99362.879 | 2013-10-07 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

Q5. Delete all the department details having location as 'Mumbai'.

```

mysql> select * from Dept;
+-----+-----+-----+
| Dept_id | dname      | dlocation |
+-----+-----+-----+

```

1	Computer	Pune
2	IT	Pune
3	ENTC	Mumbai
4	Civil	Nagpur
5	Auto Mobil	Nagpur

5 rows in set (0.00 sec)

```
mysql> delete from Dept where dlocation='Mumbai';
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select * from Dept;
```

Dept_id	dname	dlocation
1	Computer	Pune
2	IT	Pune
4	Civil	Nagpur
5	Auto Mobil	Nagpur

4 rows in set (0.00 sec)

Q6. Find the names of Projects with location 'Pune'.

```
mysql> select Pname from Project where Plocation='Pune';
```

Mobile App

1 row in set (0.00 sec)

Q7. Find the project having cost in between 100000 to 500000.

```
mysql> select Pcost from Project where Pcost Between 100000 AND 500000;
```

300000
500000
200000

3 rows in set (0.00 sec)

Q8. Find the project having maximum price and find average Project cost.

```
mysql> select MAX(Pcost) from Project;
```

500000

1 row in set (0.00 sec)

```
mysql> select Pcost from Project ORDER BY Pcost DESC;
```

```

+-----+
| Pcost |
+-----+
| 500000 |
| 300000 |
| 200000 |
+-----+
3 rows in set (0.00 sec)

```

```

mysql> select AVG(Pcost) from Project;
+-----+
| AVG(Pcost) |
+-----+
| 333333.3333333333 |
+-----+
1 row in set (0.00 sec)

```

Q9. Display all employees with Emp_id and Emp name in descending order.

```

mysql> select Emp_id,fname,lname from Employee ORDER BY Emp_id desc;
+-----+-----+-----+
| Emp_id | fname   | lname   |
+-----+-----+-----+
| 41590  | Samyak  | Kasturkar |
| 31981  | Yash    | Sonawane |
| 31980  | Chanchal | Wadhwa   |
| 31590  | Vishal  | Kundan   |
| 31390  | Yash    | Jadhav   |
| 31337  | Ankush  | Mehta    |
| 31335  | Pranjal | Deasi    |
| 31333  | Pradnya | Kumar    |
| 31324  | Shrikant | Kharat   |
| 31323  | Gautam  | Khaire   |
| 31315  | Jay     | Mehta    |
| 31309  | Tanmay  | Jadhav   |
| 31307  | Shivam  | Dhonde   |
+-----+-----+-----+
13 rows in set (0.09 sec)

```

Q10. Display Proj_name,Plocation,Pcost of all project started in 2004,2005,2007.

```

mysql> select Pname,Plocation,Pcost from Project WHERE Pyear=2004 OR
Pyear=2005 OR Pyear=2007;
Empty set (0.00 sec)
mysql> select Pname,Plocation,Pcost from Project WHERE Pyear=2004 OR
Pyear=2005 OR Pyear=2007 OR Pyear=2022;
+-----+-----+-----+
| Pname      | Plocation | Pcost |
+-----+-----+-----+
| Blockchain | Mumbai   | 500000 |
| Building   | Mumbai   | 200000 |
+-----+-----+-----+

```