

MYSQL

Consider the Company database with following tables:

1. Employee

Emp_No (PRIMARY KEY)
Emp_Name
Address
Sex
Dept
Salary
DOJ
Branch

2. Department

Dept_No (Primary Key)
DName
Mgr_Id
Mgr_Strtdte

Perform the following:

1. Create Company database
2. Viewing all databases
3. Viewing all Tables in a Database,
4. Creating Tables (With and Without Constraints)
5. Inserting/Updating/Deleting Records in a Table
6. Saving (Commit) and Undoing (rollback)

Microsoft Windows [Version 10.0.19043.1237]

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C:\Users\Ahammed Rashad>mysql -u root -p

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 13

Server version: 8.0.26 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

+-----+

Database

+-----+

college

company

information_schema

mysql

performance_schema

sys

+-----+

6 rows in set (0.19 sec)

mysql> create database company;

Query OK, 1 row affected (0.23 sec)

```
mysql> show databases;
```

```
+-----+
| Database          |
+-----+
| company           |
| information_schema |
| mysql             |
| performance_schema |
| sys               |
+-----+
5 rows in set (0.09 sec)
```

```
mysql> use company;
```

Database changed

```
mysql> show tables;
```

Empty set (0.02 sec)

```
mysql> create table Employee(Emp_no int,Emp_name varchar(30),Address varchar(30),Sex char,Dept
varchar(30),Salary int,DOJ date,Branch varchar(30));
```

Query OK, 0 rows affected (0.23 sec)

```
mysql> create table Department(Dept_no int,Dname varchar(30),Mgr_id int Unique,mgr_strtdate
date,primary key(Dept_no));
```

Query OK, 0 rows affected (0.06 sec)

```
mysql> alter table Employee add primary key(Emp_no);
```

Query OK, 0 rows affected (0.16 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc Employee;
```

```
+-----+-----+-----+-----+-----+-----+
| Field    | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Emp_no   | int           | NO   | PRI | NULL    |       |
| Emp_name | varchar(30)   | YES  |     | NULL    |       |
```

Address	varchar(30)	YES		NULL		
Sex	char(1)	YES		NULL		
Dept	varchar(30)	YES		NULL		
Salary	int	YES		NULL		
DOJ	date	YES		NULL		
Branch	varchar(30)	YES		NULL		

+-----+-----+-----+-----+-----+-----+

8 rows in set (0.03 sec)

mysql> desc Department;

Field	Type	Null	Key	Default	Extra	
Dept_no	int	NO	PRI	NULL		
Dname	varchar(30)	YES		NULL		
Mgr_id	int	YES	UNI	NULL		
mgr_startdate	date	YES		NULL		

+-----+-----+-----+-----+-----+-----+

4 rows in set (0.01 sec)

mysql> insert into Employee values(101,"Jibin","Kollam","M","Sales",25000,"2018-09-11","Bangluru");

Query OK, 1 row affected (0.02 sec)

mysql> insert into Employee values(102,"Aparna","Idukki","F","Marketing",35000,"2019-09-11","Kochi");

Query OK, 1 row affected (0.00 sec)

mysql> insert into Employee values(103,"Murshid","Malappuram","M","IT",32000,"2017-06-12","Kozhikode");

Query OK, 1 row affected (0.01 sec)

mysql> insert into Employee values(104,"Hishana","Kozhikode","F","IT",22000,"2020-03-09","Bangluru");

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Employee values(105,"Nihad","Kannur","M","Sales",20000,"2021-01-09","Kochi");
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Employee values(106,"Anu","Kozhikode","F","Marketing",40000,"2017-11-17","Kozhikode");
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> update Employee SET Dept="IT",Salary=45000 where Emp_no=106;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select *from employee;
```

Emp_no	Emp_name	Address	Sex	Dept	Salary	DOJ	Branch
101	Jibin	Kollam	M	Sales	25000	2018-09-11	Bangluru
102	Aparna	Idukki	F	Marketing	35000	2019-09-11	Kochi
103	Murshid	Malappuram	M	IT	32000	2017-06-12	Kozhikode
104	Hishana	Kozhikode	F	IT	22000	2020-03-09	Bangluru
105	Nihad	Kannur	M	Sales	20000	2021-01-09	Kochi
106	Anu	Kozhikode	F	IT	45000	2017-11-17	Kozhikode

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

```
mysql> delete from Employee where Emp_no=106;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Employee values(106,"Anu","Kozhikode","F","Marketing",40000,"2017-11-17","Kozhikode");
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> Desc Department;
```

Field	Type	Null	Key	Default	Extra
Dept_no	int	NO	PRI	NULL	

Dname	varchar(30)	YES		NULL	
Mgr_id	int	YES	UNI	NULL	
mgr_strtdate	date	YES		NULL	

+-----+-----+-----+-----+-----+-----+

4 rows in set (0.01 sec)

```
mysql> insert into Department values(2010,"IT",001,"2019-09-11");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Department values(2020,"Sales",002,"2012-02-12");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into Department values(2030,"Marketing",003,"2017-02-19");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> set autocommit=0;
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> start transaction;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> insert into Department values(2040,"Finance",004,"2017-02-19");
```

Query OK, 1 row affected (0.00 sec)

```
mysql> commit;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> select * from Department;
```

+-----+-----+-----+-----+-----+

Dept_no	Dname	Mgr_id	mgr_strtdate
2010	IT	1	2019-09-11
2020	Sales	2	2012-02-12
2030	Marketing	3	2017-02-19
2040	Finance	4	2017-02-19

+-----+-----+-----+-----+-----+

4 rows in set (0.00 sec)

```
mysql> insert into Department values(2050,"Transport",005,"2012-02-19");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> rollback;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> select * from Department;
```

Dept_no	Dname	Mgr_id	mgr_strtdate
2010	IT	1	2019-09-11
2020	Sales	2	2012-02-12
2030	Marketing	3	2017-02-19
2040	Finance	4	2017-02-19

4 rows in set (0.00 sec)

```
mysql>
```