

1.Create Company database

```
mysql> create database company;
```

Query OK, 1 row affected (0.01 sec)

2.Viewing all databases

```
mysql> show databases;
```

```
+-----+
| Database          |
+-----+
| company           |
| information_schema|
| mysql             |
| performance_schema|
| sakila            |
| sys               |
| world             |
+-----+
7 rows in set (0.00 sec)
```

```
mysql> use company;
```

Database changed

3.Creating Tables

```
mysql> create table Department
```

```
-> (Dept_No int NOT NULL,
-> Dname varchar(20) NOT NULL,
-> Mgr_id int not null,
-> Mgr_strtdate date not null,
-> primary key(Dept_No));
```

Query OK, 0 rows affected (0.09 sec)

```
mysql> describe department;
```

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Dept_No        | int           | NO   | PRI | NULL    |       |
| Dname          | varchar(20)   | NO   |     | NULL    |       |
| Mgr_id         | int           | NO   |     | NULL    |       |
| Mgr_strtdate   | date          | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.04 sec)
```

```
mysql> insert into Department
```

```
-> values
-> (1,'smith',1001,'2005-06-08'),
-> (2,'jhon',1002,'2006-06-10'),
-> (3,'maria',1003,'2009-04-10'),
```

```

-> (4,'Ann',1004,'2009-04-11');
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> select * from Department;
+-----+-----+-----+-----+
| Dept_No | Dname | Mgr_id | Mgr_strtdate |
+-----+-----+-----+-----+
|      1 | smith |   1001 | 2005-06-08   |
|      2 | jhon  |   1002 | 2006-06-10   |
|      3 | maria |   1003 | 2009-04-10   |
|      4 | Ann   |   1004 | 2009-04-11   |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
mysql> select * from Department;
+-----+-----+-----+-----+
| Dept_No | Dname | Mgr_id | Mgr_strtdate |
+-----+-----+-----+-----+
|      1 | smith |   1001 | 2005-06-08   |
|      2 | jhon  |   1002 | 2006-06-10   |
|      3 | maria |   1003 | 2009-04-10   |
|      4 | Ann   |   1004 | 2009-04-11   |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

1.Rename the table Department as Dept

```

mysql> alter table Department
-> rename to Dept;
Query OK, 0 rows affected (0.07 sec)
mysql> select * from Dept;
+-----+-----+-----+-----+
| Dept_No | Dname | Mgr_id | Mgr_strtdate |
+-----+-----+-----+-----+
|      1 | smith |   1001 | 2005-06-08   |
|      2 | jhon  |   1002 | 2006-06-10   |
|      3 | maria |   1003 | 2009-04-10   |
|      4 | Ann   |   1004 | 2009-04-11   |
+-----+-----+-----+-----+
4 rows in set (0.02 sec)

```

2.Add a new column Phone with not null constraints to the existing table Dept

```

mysql> alter table Dept
-> add phone int not null;
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select * from Dept;

```

```

+-----+-----+-----+-----+-----+
| Dept_No | Dname | Mgr_id | Mgr_strtdate | phone |
+-----+-----+-----+-----+-----+
|      1 | smith |   1001 | 2005-06-08   |      0 |
|      2 | jhon  |   1002 | 2006-06-10   |      0 |
|      3 | maria |   1003 | 2009-04-10   |      0 |
|      4 | Ann   |   1004 | 2009-04-11   |      0 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

3.Rename the column DName to Dept_Name in Dept table

```

mysql> alter table Dept
      -> rename column Dname to Dept_Name;
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0
mysql> select * from Dept;

```

```

+-----+-----+-----+-----+-----+
| Dept_No | Dept_Name | Mgr_id | Mgr_strtdate | phone |
+-----+-----+-----+-----+-----+
|      1 | smith     |   1001 | 2005-06-08   |      0 |
|      2 | jhon      |   1002 | 2006-06-10   |      0 |
|      3 | maria     |   1003 | 2009-04-10   |      0 |
|      4 | Ann       |   1004 | 2009-04-11   |      0 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

4.Change the data type of column DName as CHAR with size10

```

mysql> alter table Dept
      -> modify Dept_Name char(10);
Query OK, 4 rows affected (0.12 sec)
Records: 4  Duplicates: 0  Warnings: 0
mysql> describe Dept;

```

```

+-----+-----+-----+-----+-----+-----+
| Field          | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Dept_No        | int       | NO   | PRI | NULL    |       |
| Dept_Name      | char(10)  | YES  |     | NULL    |       |
| Mgr_id         | int       | NO   |     | NULL    |       |
| Mgr_strtdate   | date      | NO   |     | NULL    |       |
| phone         | int       | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

```

5.Delete table

```

mysql> drop table dept;

```