```
DDL
mysql> show databases;
+----+
| Database
+----+
| information schema |
| mahesh
| mysql
| performance schema |
| sys
+----+
5 rows in set (0.00 sec)
mysql> use mahesh;
Database changed
mysql> show tables;
+----+
| Tables in mahesh |
+----+
| employee
+----+
1 row in set (0.01 sec)
mysql> create table tbl employee(eid int(5),ename varchar(20),esalary
int(5));
Query OK, 0 rows affected, 2 warnings (0.02 sec)
mysql> show tables;
+----+
| Tables in mahesh |
+----+
| employee
| tbl employee
+----+
2 rows in set (0.00 sec)
mysql> desc tbl employee;
+----+
              | Null | Key | Default | Extra |
| Field | Type
+----+
| eid
      | int
                | YES |
                         | NULL
| ename | varchar(20) | YES |
                         | NULL
                                      1
| NULL
+----+
3 rows in set (0.00 sec)
```

```
mysql> rename table employee to tbl Assignment;
Query OK, 0 rows affected (0.02 sec)
mysql> show tables;
+----+
| Tables in mahesh |
+----+
| tbl assignment |
| tbl employee
+----+
2 rows in set (0.00 sec)
mysql> alter table tbl employee add gender char(1);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc tbl employee;
+----+
             | Null | Key | Default | Extra |
| Field | Type
+----+
     | int
               | YES |
                       NULL
| eid
                       | NULL
| ename | varchar(20) | YES |
| NULL
| gender | char(1) | YES |
                       | NULL
4 rows in set (0.00 sec)
mysql> alter table tbl employee modify gender varchar(7);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc tbl employee;
+----+
| Field | Type
               | Null | Key | Default | Extra |
+----+
| eid | int
               | YES |
                        NULL
| ename | varchar(20) | YES |
                       NULL
NULL
                                    1
| gender | varchar(7) | YES | NULL
+----+----+-----+
4 rows in set (0.00 sec)
```

```
mysql> alter table tbl employee rename column gender to egender;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc tbl employee;
+----+
               | Null | Key | Default | Extra |
| Field | Type
+----+
               | YES |
| eid | int
                        | NULL
| ename | varchar(20) | YES |
                        | NULL
NULL
| egender | varchar(7) | YES | | NULL
                              - 1
+----+----+-----+
4 rows in set (0.00 sec)
mysql> alter table tbl employee drop column egender;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc tbl employee;
+----+
| Field | Type
               | Null | Key | Default | Extra |
+----+
| eid | int
               | YES |
                        | NULL
| ename | varchar(20) | YES |
                        | NULL
                                     1
1
+----+
3 rows in set (0.00 sec)
mysql> drop table tbl employee;
Query OK, 0 rows affected (0.01 sec)
mysql> show tables;
+----+
| Tables in mahesh |
+----+
| tbl assignment |
+----+
1 row in set (0.00 sec)
mysql> drop table tbl employee;
```

___**

```
mysql> insert into tbl employee values (102, "kumar", 5000);
Query OK, 1 row affected (0.00 sec)
mysql> desc tbl employee;
+----+
| Field | Type
                | Null | Key | Default | Extra |
+----+
      | int
| eid
                 | YES |
                          NULL
                                        1
      ename
                          | NULL
                                        1
| esalary | int
            | YES | | NULL
                                  1
                                        1
+----+
3 rows in set (0.00 sec)
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh | 4000 |
               5000 I
| 102 | kumar |
+----+
mysql> insert into tbl employee values (101, "mahesh", 4000);
Query OK, 1 row affected (0.01 sec)
mysql> insert into tbl employee values (102,"kumar",5000);;
Query OK, 1 row affected (0.00 sec)
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 I
| 102 | kumar |
               5000 I
+----+
2 rows in set (0.00 sec)
mysql> insert into tbl employee(eid,ename)values(103,"kumaran");
Query OK, 1 row affected (0.00 sec)
```

```
+----+
| eid | ename | esalary |
+----+
               4000 I
| 101 | mahesh |
| 102 | kumar |
                5000 |
| 103 | kumaran |
               NULL |
+----+
3 rows in set (0.00 sec)
mysql> insert into tbl employee(eid,esalary)values(104,6000);
Query OK, 1 row affected (0.00 sec)
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 I
| 102 | kumar |
               5000 |
| 103 | kumaran |
                NULL
| 104 | NULL
           - 1
                6000 I
+----+
4 rows in set (0.00 sec)
mysql> select eid, ename from tbl employee;
+----+
| eid | ename |
+----+
| 101 | mahesh |
| 102 | kumar |
| 103 | kumaran |
| 104 | NULL
+----+
4 rows in set (0.00 sec)
mysql> select * from tbl employee where esalary > 2000;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh | 4000 |
| 102 | kumar |
                5000 I
| 104 | NULL |
                6000 I
+----+
3 rows in set (0.00 sec)
```

mysql> select * from tbl employee;

```
mysql> select * from tbl employee where esalary > 4000;
+----+
| eid | ename | esalary |
+----+
| 102 | kumar |
             5000 I
| 104 | NULL |
             6000 I
+----+
2 rows in set (0.00 sec)
mysql> select * from tbl employee where esalary >= 4000;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 I
| 102 | kumar |
               5000 I
| 104 | NULL |
               6000 I
+----+
3 rows in set (0.00 sec)
mysql> select * from tbl employee where esalary = 4000;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh | 4000 |
+----+
1 row in set (0.00 sec)
mysql> select * from tbl employee where ename='kumar';
+----+
| eid | ename | esalary |
+----+
             5000 I
| 102 | kumar |
+----+
1 row in set (0.00 sec)
mysql> select * from tbl employee where ename!='kumar';
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
              4000 I
| 103 | kumaran |
              NULL
+----+
2 rows in set (0.00 sec)
```

```
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 |
| 102 | kumar |
               5000 |
| 103 | kumaran |
              NULL |
| 104 | NULL |
              6000 I
+----+
4 rows in set (0.00 sec)
mysql> select * from tbl employee where ename is not null and esalary
is not null;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh | 4000 |
              5000 I
| 102 | kumar |
+----+
2 rows in set (0.00 sec)
mysql> select * from tbl employee where ename is null or esalary is
+----+
| eid | ename | esalary |
+----+
| 103 | kumaran | NULL |
              6000 I
| 104 | NULL
           - 1
+----+
2 rows in set (0.00 sec)
mysql> select * from tbl employee where ename is null or esalary is
not null;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 I
| 102 | kumar |
               5000 I
| 104 | NULL |
               6000 I
+----+
3 rows in set (0.00 sec)
```

mysql> select * from tbl employee;

```
null;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 I
| 102 | kumar |
               5000 I
| 104 | NULL |
               6000 I
+----+
3 rows in set (0.00 sec)
mysql> select * from tbl employee where eid in(101,106,102);
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh | 4000 |
              5000 I
| 102 | kumar |
+----+
2 rows in set (0.00 sec)
mysql> select * from tbl employee where ename in("kumaran", "mahesh");
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000
| 103 | kumaran |
               NULL |
+----+
2 rows in set (0.00 sec)
mysql> select * from tbl employee where esalary between 4000 and 6000;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 I
| 102 | kumar |
               5000 I
| 104 | NULL |
               6000 I
+----+
3 rows in set (0.00 sec)
```

mysql> select * from tbl employee where eid is null or esalary is not

```
mysql> select * from tbl employee where esalary between 5000 and 6000;
+----+
| eid | ename | esalary |
+----+
| 102 | kumar |
             5000 I
 104 | NULL |
             6000 |
+----+
2 rows in set (0.00 sec)
mysql> select * from tbl employee where esalary not between 5000 and
6000;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh | 4000 |
+----+
1 row in set (0.00 sec)
mysql> select * from tbl employee where ename like 'm%';
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
              4000 |
+----+
1 row in set (0.00 sec)
mysql> select * from tbl employee where ename like ' u%';
+----+
| eid | ename | esalary |
+----+
| 102 | kumar |
               5000 I
| 103 | kumaran |
               NULL
+----+
2 rows in set (0.00 sec)
mysql> select * from tbl employee where ename like ' m%';
+----+
| eid | ename | esalary |
+----+
| 102 | kumar |
               5000 |
 103 | kumaran |
               NULL |
+----+
2 rows in set (0.00 sec)
```

```
mysql> select * from tbl employee where ename like '%a%';
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 I
| 102 | kumar |
                5000 |
| 103 | kumaran |
               NULL |
+----+
3 rows in set (0.00 sec)
mysql> select * from tbl_employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
               4000 |
| 102 | kumar |
               5000 I
| 103 | kumaran | NULL |
| 104 | NULL |
               6000 I
+----+
4 rows in set (0.00 sec)
                       ___**
Commit & Rollbak:
mysql> commit;
Query OK, 0 rows affected (0.00 sec)
mysql> update tbl employee set esalary = 0;
Query OK, 4 rows affected (0.01 sec)
Rows matched: 4 Changed: 4 Warnings: 0
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
                   0 |
| 102 | kumar |
                  0 |
| 103 | kumaran |
                  0 1
| 104 | NULL
                  0 1
          1
+----+
4 rows in set (0.00 sec)
```

```
+----+
| @@autocommit |
+----+
         1 |
+----+
1 row in set (0.00 sec)
mysql> set autocommit =0;
Query OK, 0 rows affected (0.00 sec)
mysql> select @@autocommit;
+----+
| @@autocommit |
+----+
+----+
1 row in set (0.00 sec)
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
| 102 | kumar |
                   0 |
| 103 | kumaran |
                  0 1
| 104 | NULL |
                  0 |
+----+
4 rows in set (0.00 sec)
mysql> update tbl employee set esalary = 1000 where eid = 101;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
                 1000 |
| 102 | kumar |
                   0 1
| 103 | kumaran |
                   0 1
| 104 | NULL |
                  0 1
+----+
4 rows in set (0.00 sec)
```

mysql> select @@autocommit;

```
mysql> rollback;
Query OK, 0 rows affected (0.00 sec)
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
                   0 |
| 102 | kumar |
                   0 |
| 103 | kumaran |
                   0 |
| 104 | NULL |
                   0 1
+----+
4 rows in set (0.00 sec)
mysql> commit;
Query OK, 0 rows affected (0.00 sec)
mysql> update tbl employee set esalary = 2000;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 4 Changed: 0 Warnings: 0
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh | 2000 |
| 102 | kumar |
                2000 |
| 103 | kumaran |
                2000 |
| 104 | NULL |
                2000 |
+----+
4 rows in set (0.00 sec)
mysql> rollback;
Query OK, 0 rows affected (0.00 sec)
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh | 2000 |
| 102 | kumar |
                2000 I
| 103 | kumaran |
                 2000 I
| 104 | NULL |
                 2000 I
+----+
4 rows in set (0.00 sec)
```

```
mysql> update tbl employee set esalary =4000 where eid = 102;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from tbl employee;
+----+
| eid | ename | esalary |
+----+
| 101 | mahesh |
                2000 |
| 102 | kumar |
                 4000 |
| 103 | kumaran |
                2000 |
| 104 | NULL |
                 2000 I
+----+
4 rows in set (0.00 sec)
mysql> update tbl employee set ename ="karthick" where eid = 104;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from tbl employee;
+----+
| eid | ename
             | esalary |
+----+
| 101 | mahesh |
                  2000 |
| 102 | kumar |
                 4000 |
| 103 | kumaran |
                  2000 I
| 104 | karthick |
                  2000 |
+----+
4 rows in set (0.00 sec)
mysql> update tbl employee set esalary =5000 where eid = 103;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
                         ___**
mysql> select * from tbl employee;
+----+
| eid | ename
             | esalary |
+----+
| 101 | mahesh |
                  2000 I
| 102 | kumar
                  4000 I
             - 1
| 103 | kumaran |
                 5000 I
| 104 | karthick |
                  2000 |
+----+
```

```
4 rows in set (0.00 sec)
mysql> update tbl employee set esalary=3000 where eid = 104;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from tbl employee;
+----+
| eid | ename
             | esalary |
+----+
 101 | mahesh |
                  2000 I
| 102 | kumar |
                  4000 I
| 103 | kumaran |
                 5000 I
| 104 | karthick |
                  3000 I
+----+
4 rows in set (0.00 sec)
mysql> update tbl employee set esalary =5100 where esalary >= 3000;
Query OK, 4 rows affected (0.00 sec)
Rows matched: 4 Changed: 4 Warnings: 0
mysql> select * from tbl employee;
+----+
| eid | ename
             | esalary |
+----+
| 101 | mahesh | 5100 |
| 102 | kumar |
                 5100 |
| 103 | kumaran |
                 5100 I
| 104 | karthick |
                 5100 |
+----+
4 rows in set (0.00 sec)
mysql> insert into tbl employee(eid,esalary) values(105,3000);
Query OK, 1 row affected (0.00 sec)
mysql> select * from tbl employee;
+----+
| eid | ename
             | esalary |
+----+
| 101 | mahesh | 5100 |
| 102 | kumar |
                 5100 I
| 103 | kumaran |
                  5100 I
| 104 | karthick |
                 5100 |
| 105 | NULL |
                  3000 |
+----+
```

```
5 rows in set (0.00 sec)
mysql> select * from tbl employee where ename <=> null;
+----+
| eid | ename | esalary |
+----+
| 105 | NULL |
               3000 |
+----+
1 row in set (0.00 sec)
mysql> select eid as "Employee ID", ename as "Employee Name" from
tbl employee;
+----+
| Employee ID | Employee Name |
+----+
       101 | mahesh
102 | kumar
       103 | kumaran
       104 | NULL
+----+
4 rows in set (0.00 sec)
                         ___**
DATE:
mysql> select now();
+----+
| now()
+----+
| 2023-10-03 09:53:12 |
+----+
1 row in set (0.00 sec)
                         ___***___
SUB QUERIES : (sub queries)
mysql> create table tbl dept(dno int(3),dname varchar(20));
Query OK, 0 rows affected, 1 warning (0.01 sec)
mysql> insert into tbl dept values(10,"LD");
Query OK, 1 row affected (0.00 sec)
mysql> insert into tbl dept values(20,"Project");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from tbl_dept;
+----+
| dno | dname
+----+
   10 | LD
   20 | Project |
+----+
2 rows in set (0.00 sec)
mysql> select dno from tbl dept where dname = "LD";
+----+
| dno |
+----+
| 10 |
+----+
1 row in set (0.00 sec)
mysql> select * from tbl employee where edepno = (select dno from
tbl dept where dname = "LD");
+----+
| eid | ename | esalary | edepno |
+----+
                2000 |
| 101 | mahesh |
                           10 I
 102 | kumar | 2000 |
                          10 |
+----+
2 rows in set (0.00 sec)
mysql> select edepno from tbl employee where ename="kumar";
+----+
| edepno |
+----+
    10 I
+----+
1 row in set (0.00 sec)
mysql> select dname from tbl dept where dno=(select edepno from
tbl employee where ename="kumar");
+----+
| dname |
+----+
| LD
+----+
1 row in set (0.00 \text{ sec})
```

```
mysql> update tbl employee set esalary = esalary +200 where edepno
=(select dno from tbl dept where dname="LD");
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0
mysql> select * from tbl employee;
+----+
| eid | ename | esalary | edepno |
+----+
| 101 | mahesh |
                  2200 |
                            10 |
 102 | kumar |
                  2200 I
                            10 I
| 103 | kumaran |
                  2000 I
                            20 I
            - 1
| 104 | NULL
                   2000 |
                            20 I
+----+
4 rows in set (0.00 sec)
mysql> select edepno from tbl employee where eid in(101,103);
+----+
| edepno |
+----+
     10 I
     20 |
+----+
2 rows in set (0.00 sec)
mysql> select dname from tbl dept where dno in(select edepno from
tbl employee where eid in(101,103);
+----+
| dname
+----+
| LD |
| Project |
+----+
2 rows in set (0.00 sec)
mysql> select edepno from tbl employee where esalary >2000;
+----+
| edepno |
+----+
     10 I
     10 I
+----+
2 rows in set (0.00 sec)
```

```
mysql> select dname from tbl dept where dno in(select edepno from
tbl employee where esalary > 2000);
+----+
| dname |
+----+
| LD
+----+
1 row in set (0.00 sec)
CONSTRAINS :
mysql> create table tbl school (srollno int(5) primary key, sname
varchar(20) not null, smarks int(3) check(smarks > 0), sphone int(10)
unique, sage int(3) default 15);
Query OK, 0 rows affected, 4 warnings (0.02 sec)
mysql> desc tbl school;
+----+-
----+
| Field | Type
               | Null | Key | Default | Extra |
+----+
| srollno | int
                 | NO | PRI | NULL
| sname | varchar(20) | NO
                            NULL
                       1
| smarks | int
                 | YES |
                            NULL
| sphone | int
                 | YES | UNI | NULL
      | int
               | YES |
                           | 15
                                   1
sage
+----+
5 rows in set (0.00 sec)
mysql> select * from tbl school;
+----+
| srollno | sname | smarks | sphone
+----+
    101 | Mahesh | 78 | 987654321 | 15 |
+----+
1 row in set (0.00 sec)
mysql> create table tbl school student (srollno int(5) primary key
auto increment, sname varchar(20), smarks int(3));
Query OK, 0 rows affected, 2 warnings (0.01 sec)
```

```
mysql> desc tbl school student;
+----+
                | Null | Key | Default | Extra
| Field | Type
+----+
                | NO | PRI | NULL | auto increment |
| srollno | int
| sname | varchar(20) | YES |
                          NULL
| smarks | int
               | YES |
                          NULL
+----+
3 rows in set (0.00 sec)
mysql> insert into tbl school student(sname,smarks)
values("Mahesh",78);
Query OK, 1 row affected (0.00 sec)
mysql> insert into tbl school student(sname, smarks) values("Naga",74);
Query OK, 1 row affected (0.00 sec)
mysql> select * from tbl school student;
+----+
| srollno | sname | smarks |
+----+
     1 | Mahesh |
                 78 I
     2 | Naga |
                 74 |
+----+
2 rows in set (0.00 sec)
mysql> insert into tbl school student(sname,smarks) values("Raj",72);
Query OK, 1 row affected (0.00 sec)
mysql> select * from tbl school student;
+----+
| srollno | sname | smarks |
+----+
     1 | Mahesh |
                 78 |
     2 | Naga |
                 74 I
                 72 |
     3 | Raj |
+----+
3 rows in set (0.00 sec)
```

```
mysql> show tables;
+----+
| Tables in mahesh |
+----+
| countries
| dup countries
| jobs
| tbl assignment
| tbl ddl
| tbl dept
| tbl employee
| tbl school
| tbl school student |
+----+
9 rows in set (0.00 sec)
mysql> drop table tbl employee;
Query OK, 0 rows affected (0.01 sec)
mysql> drop table tbl dept;
Query OK, 0 rows affected (0.01 sec)
mysql> show tables;
+----+
| Tables in mahesh |
+----+
| countries
| dup countries
| jobs
| tbl assignment
| tbl ddl
| tbl school
| tbl school student |
+----+
7 rows in set (0.00 sec)
mysql> create table tbl dept (depno int primary key, depname
varchar(20));
Query OK, 0 rows affected (0.01 sec)
mysql> create table tbl employee (id int primary key , name
varchar(20), salary int, depno int, foreign key (depno) references
tbl dept(depno));
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc tbl dept;
+----+
                 | Null | Key | Default | Extra |
| Field
       | Type
+----+
                 | NO | PRI | NULL
| depno | int
                                         1
| depname | varchar(20) | YES |
                           | NULL
                                         1
+----+
2 rows in set (0.00 sec)
mysql> desc tbl employee;
+----+
| Field | Type
                | Null | Key | Default | Extra |
+----+
     | int
                 | NO
                     | PRI | NULL
| name
      | varchar(20) | YES |
                           | NULL
| salary | int
                | YES |
                          | NULL
| depno | int
                | YES | MUL | NULL
+----+
4 rows in set (0.00 sec)
mysql> insert into tbl employee values(10,"Mahesh Kumar",3000,10);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key
constraint fails (`mahesh`.`tbl employee`, CONSTRAINT
`tbl employee ibfk 1` FOREIGN KEY (`depno`) REFERENCES `tbl dept`
(`depno`))
mysql> insert into tbl dept values(10,"L&D");
Query OK, 1 row affected (0.00 sec)
mysql> insert into tbl employee values(10,"Mahesh Kumar",3000,10);
Query OK, 1 row affected (0.00 sec)
mysql> select * from tbl dept;
+----+
| depno | depname |
+----+
   10 | L&D
+----+
1 row in set (0.00 sec)
```

```
+---+
            | salary | depno |
| id | name
+---+
| 10 | Mahesh Kumar | 3000 |
                     10 I
+---+
1 row in set (0.00 sec)
mysql> create table tbl new employee as select * from tbl employee;
Query OK, 1 row affected (0.05 sec)
Records: 1 Duplicates: 0 Warnings: 0
mysql> desc tbl new employee;
+----+
              | Null | Key | Default | Extra |
| Field | Type
+----+
    | int
              | NO |
                       | NULL
     | varchar(20) | YES |
                       | NULL
              | YES |
| salary | int
                       | NULL
             | YES |
| depno | int
                      | NULL
+----+
4 rows in set (0.00 sec)
mysql> select * from tbl new employee;
+---+
| id | name
            | salary | depno |
+---+
| 10 | Mahesh Kumar | 3000 | 10 |
+---+
1 row in set (0.00 sec)
mysql> select * from tbl employee;
+---+
| id | name
            | salary | depno |
+---+
| 10 | Mahesh Kumar | 3000 |
+---+
1 row in set (0.00 sec)
mysql> create table tbl IT Employee as select * from tbl employee
where 1=2;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

mysql> select * from tbl employee;

```
// if you need only the structure, you don't want records.so,use
condition as wrong.
mysql> select * from tbl IT Employee;
Empty set (0.00 sec)
mysql> desc tbl IT Employee;
+----+
| Field | Type
                | Null | Key | Default | Extra |
+----+
    | int
                | NO |
                          | NULL
| id
- 1
               | YES | | NULL
| depno | int
                                 - 1
+----+
4 rows in set (0.00 sec)
                      ___**
Group by :
mysql> insert into tbl new employee values(11,"Naga",4000,10);
Query OK, 1 row affected (0.00 sec)
mysql> insert into tbl new employee values(12, "Domnic", 5000, 20);
Query OK, 1 row affected (0.00 sec)
mysql> insert into tbl new employee values(13,"Purush",6000,20);
Query OK, 1 row affected (0.00 sec)
mysql> insert into tbl new employee values(14,"Vel",6500,10);
Query OK, 1 row affected (0.00 sec)
mysql> insert into tbl new employee values(15, "Sara", 6550, 20);
Query OK, 1 row affected (0.00 sec)
mysql> select * from tbl new employee;
+---+
          | salary | depno |
+---+
| 10 | Mahesh Kumar | 3000 |
| 11 | Naga | 4000 |
                        10 I
| 12 | Domnic | 5000 |
                        20 I
             | 6000 |
| 13 | Purush
                        20 I
| 14 | Vel
              | 6500 | 10 |
| 15 | Sara
           | 6550 |
                        20 |
+---+
```

```
mysql> select count(*)from tbl new employee;
+----+
| count(*) |
+----+
      6 I
+----+
1 row in set (0.01 sec)
mysql> select depno,count(*) from tbl new employee group by depno;
+----+
| depno | count(*) |
+----+
   10 |
           3 I
   20 |
+----+
2 rows in set (0.00 sec)
mysql> select depno as "Department Number",count(*) as "Number of
Employee" from tbl new employee group by depno;
+----+
| Department Number | Number of Employee |
+----+
            10 |
                            3 I
            20 I
                            3 I
+----+
2 rows in set (0.00 sec)
mysql> select depno as "Department Number",count(*) as "Number of
Employee" from tbl new employee group by depno order by depno desc;
+----+
| Department Number | Number of Employee |
+----+
1
            20 I
                            3 I
                            3 I
           10 |
+----+
2 rows in set (0.00 sec)
mysql> select max(salary)from tbl new employee;
+----+
| max(salary) |
+----+
     6550 I
+----+
```

6 rows in set (0.00 sec)

```
1 row in set (0.00 sec)
mysql> select min(salary) from tbl new employee;
+----+
| min(salary) |
+----+
       3000 |
+----+
1 row in set (0.00 sec)
mysql> select avg(salary)from tbl new employee;
+----+
| avg(salary) |
+----+
| 5175.0000 |
+----+
1 row in set (0.00 sec)
mysql> select sum(salary) from tbl new employee;
+----+
| sum(salary) |
+----+
      31050 I
+----+
1 row in set (0.00 sec)
mysql> select name as "Employee Name", min(salary) as "Minimum Salary"
from tbl new employee group by name;
+----+
| Employee Name | Minimum Salary |
+----+
| Mahesh Kumar |
                       3000 |
           4000 I
| Naga
            - 1
Domnic
                      5000 I
| Purush
            6000 I
| Vel
            - 1
                      6500 I
                       6550 I
+----+
6 rows in set (0.00 sec)
```

mysql> select name as "Employee Name",min(salary) as "Minimum Salary"
from tbl_new_employee group by name order by name asc;

+	++
Employee Name	Minimum Salary
+	++
Domnic	5000
Mahesh Kumar	3000
Naga	4000
Purush	6000
Sara	6550
Vel	6500
+	++

6 rows in set (0.00 sec)

mysql> select min(salary) as "Minimum Salary",depno as "Department
number" from tbl_new_employee group by depno order by depno asc;

ı	Minimum	Salary	ŀ	Department number	ı
		3000 5000	ı	10	ı
+			•		•

2 rows in set (0.00 sec)