```
mysql> use mydb;
Database changed

mysql> show tables;
+-------------------+
| Tables_in_mydb    |
+-------------------+
| tbl_1             |
| tbl_countries     |
| tbl_dept          |
| tbl_dup_countries |
| tbl_employee      |
| tbl_job_history   |
| tbl_jobs          |
| tbl_student       |
+-------------------+
8 rows in set (0.01 sec)

mysql>  create table tbl_employee(id int primary key,name
varchar(20),salary int,dno int,foreign key (dno) references
tbl_dept(dno));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into tbl_employee values(101,"Domnic",3000,10);
Query OK, 1 row affected (0.01 sec)

mysql> desc tbl_employee;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| id     | int         | NO   | PRI | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| salary | int         | YES  |     | NULL    |       |
| dno    | int         | YES  | MUL | NULL    |       |
+--------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)

mysql> select * from tbl_employee;
+-----+--------+--------+------+
| id  | name   | salary | dno  |
+-----+--------+--------+------+
| 101 | Domnic |   3000 |   10 |
+-----+--------+--------+------+
1 row in set (0.00 sec)
```

```
mysql> drop table tbl_employee1;
Query OK, 0 rows affected (0.02 sec)

mysql> create table tbl_employee as select * from tbl_employee;
ERROR 1050 (42S01): Table 'tbl_employee' already exists
mysql> create table tbl_employee1 as select * from tbl_employee;
Query OK, 1 row affected (0.02 sec)
Records: 1  Duplicates: 0  Warnings: 0

mysql> select * from tbl_employee1;
+-----+--------+--------+------+
| id  | name   | salary | dno  |
+-----+--------+--------+------+
| 101 | Domnic |   3000 |   10 |
+-----+--------+--------+------+
1 row in set (0.00 sec)

mysql> create table tbl_employee2 as select * from tbl_employee where
1=2;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc tbl_employee2;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| id     | int         | NO   |     | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| salary | int         | YES  |     | NULL    |       |
| dno    | int         | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> insert into tbl_employee1 values(102,"Dev",3000,20);
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_employee1 values(103,"Shiva",3000,20);
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_employee1 values(104,"Purush",3000,10);
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_employee1 values(105,"Mahesh",2000,20);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from tbl_employee1;
+-----+--------+--------+------+
| id  | name   | salary | dno  |
+-----+--------+--------+------+
| 101 | Domnic |   3000 |   10 |
| 102 | Dev    |   3000 |   20 |
| 103 | Shiva  |   3000 |   20 |
| 104 | Purush |   3000 |   10 |
| 105 | Mahesh |   2000 |   20 |
+-----+--------+--------+------+
5 rows in set (0.00 sec)

mysql> select count(*) from tbl_employee1;
+----------+
| count(*) |
+----------+
|        5 |
+----------+
1 row in set (0.01 sec)

mysql> select dno,count(*) from tbl_employee1 group by dno;
+------+----------+
| dno  | count(*) |
+------+----------+
|   10 |        2 |
|   20 |        3 |
+------+----------+
2 rows in set (0.00 sec)

mysql> select dno as "Department Number",count(*) as "Number of
EMployees" from tbl_employee1 group by dno;
+-------------------+--------------------+
| Department Number | Number of EMployees |
+-------------------+--------------------+
|                10 |                  2 |
|                20 |                  3 |
+-------------------+--------------------+
2 rows in set (0.00 sec)

mysql> select count(*) from tbl_employee1 where salary>2000;
+----------+
| count(*) |
+----------+
|        4 |
+----------+
```

```
1 row in set (0.00 sec)
```

mysql> select name,count(*) from tbl_employee1 where salary>2000;
```
ERROR 1140 (42000): In aggregated query without GROUP BY, expression
#1 of SELECT list contains nonaggregated column
'mydb.tbl_employee1.name'; this is incompatible with
sql_mode=only_full_group_by
```
mysql> select avg(salary) from tbl_employee1;
```
+-------------+
| avg(salary) |
+-------------+
|   2800.0000 |
+-------------+
1 row in set (0.00 sec)
```

mysql> select min(salary) from tbl_employee1;
```
+-------------+
| min(salary) |
+-------------+
|        2000 |
+-------------+
1 row in set (0.00 sec)
```

mysql> select max(salary) from tbl_employee1;
```
+-------------+
| max(salary) |
+-------------+
|        3000 |
+-------------+
1 row in set (0.00 sec)
```

mysql> select sum(salary) from tbl_employee1;
```
+-------------+
| sum(salary) |
+-------------+
|       14000 |
+-------------+
1 row in set (0.00 sec)
```

mysql> select dno as "Department Number",avg(salary) as "Department
Average" from tbl_employee1 group by dno;
```
+-------------------+--------------------+
| Department Number | Department Average |
+-------------------+--------------------+
|                10 |          3000.0000 |
```

```
|               20 |        2666.6667 |
+------------------+------------------+
2 rows in set (0.00 sec)

mysql> select dno as "Department Number",min(sal) as "Minimum Salary"
from tbl_employee1 group by dno;
ERROR 1054 (42S22): Unknown column 'sal' in 'field list'
mysql> select dno as "Department Number",min(salary) as "Minimum
Salary" from tbl_employee1 group by dno;
+------------------+----------------+
| Department Number | Minimum Salary |
+------------------+----------------+
|               10 |           3000 |
|               20 |           2000 |
+------------------+----------------+
2 rows in set (0.00 sec)
```