```
varchar(20));
Query OK, 0 rows affected (1.61 sec)
mysql> desc Dept;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| dept_name | varchar(20) | YES | | NULL
+----+
2 rows in set (0.11 sec)
mysql> insert into Dept values(1, 'Finance');
Query OK, 1 row affected (0.25 sec)
mysql> insert into Dept values(1,'Training');
ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'
mysql> insert into Dept values(2,'Training');
Query OK, 1 row affected (0.14 sec)
mysql> insert into Dept values(3,'Marketing');
Query OK, 1 row affected (0.15 sec)
mysql> select * from Dept;
+----+
| dept id | dept name |
+----+
| 1 | Finance
     2 | Training |
     3 | Marketing |
+----+
3 rows in set (0.00 sec)
mysql> create table employee(emp id int,emp name varchar(50) not
null, dept id int, salary int(20), manager int, primary key(emp id), foreign
key(dept_id) references department(dept id));
Query OK, 0 rows affected (1.11 sec)
mysql> insert into employee values(1,'Arun',1,8000,4);
Query OK, 1 row affected (0.40 sec)
mysql> insert into employee values(2,'kiran',1,7000,1);
Query OK, 1 row affected (0.12 sec)
mysql> insert into employee values(3,'scott',1,3000,1);
Query OK, 1 row affected (0.17 sec)
mysql> insert into employee values(4, 'max', 2, 9000, null);
Query OK, 1 row affected (0.15 sec)
mysql> insert into employee values(5, 'jack', 2, 8000, 4);
Query OK, 1 row affected (0.19 sec)
mysql> insert into employee values(6,'king',null,6000,1);
Query OK, 1 row affected (0.11 sec)
mysql> select * from employee;
+----+
| emp id | emp name | dept id | salary | manager |
```

mysql> create table Dept(dept id int not null primary key,dept name

```
+----+
  +----+
6 rows in set (0.00 sec)
mysql> select count(emp id), emp name from employee group by emp name;
+----+
| count(emp id) | emp name |
+----+
       1 | Arun
         1 | kiran
         1 | scott
         1 | max
          _ | Jack |
1 | king |
+----+
6 rows in set (0.08 sec)
mysql> select * from Dept order by dept name;
+----+
| dept id | dept name |
+----+
   1 | Finance
     3 | Marketing |
    2 | Training |
+----+
3 rows in set (0.00 sec)
mysql> select dept_id, sum(salary) from employee group by dept id;
+----+
| dept id | sum(salary) |
+----+
| NULL | 6000 |
| 1 | 18000 |
| 2 | 17000 |
1 1 2
+----+
3 rows in set (0.07 sec)
mysql> select dept id from employee where salary>17000 group by dept id;
Empty set (0.00 sec)
mysql> select dept id, sum(salary) from employee group by dept id having
sum(salary)>18000;
Empty set (0.05 sec)
mysql> select dept id, sum(salary) from employee group by dept id having
sum(salary)>17000;
+----+
| dept_id | sum(salary) |
+----+
  1 | 18000 |
+----+
```

1 row in set (0.00 sec)

mysql> select dept_id,sum(salary) from employee group by dept_id having sum(salary)<20000;

+	+		+
dept	_id	sum(salary)	
+	+		+
N	ULL	6000	
	1	18000	
	2	17000	
+	+		+

3 rows in set (0.04 sec)