```
1.
mysql> create table student(name varchar(20),age int ,course varchar(20),city
varchar(20), year int, percentage int);
Query OK, 0 rows affected (0.01 sec)
2.
mysql> create table teacher(name varchar(20),age int ,course varchar(20),city
varchar(20), subject expert varchar(10), year of experience int, salary int);
Query OK, 0 rows affected (0.00 sec)
Insert 8 records into student table
mysgl> insert into student values("akshaya",22,"java","aurangabad",2022,80);
Query OK, 1 row affected (0.01 sec)
mysql> insert into student values("purva",20,"dbms","pune",2002,90);
Query OK, 1 row affected (0.00 sec)
mysgl> insert into student values("aditi",26,"python","pune",2002,70);
Query OK, 1 row affected (0.00 sec)
mysql> insert into student values("mayuri",26,"python","Mumbai",2012,76);
Query OK, 1 row affected (0.00 sec)
mysql> insert into student values("rushi",19,"oracle","Mumbai",2000,56);
Query OK, 1 row affected (0.01 sec)
mysql> insert into student values("Ankit",29,"C","Mumbai",2000,56);
Query OK, 1 row affected (0.00 sec)
mysql> insert into student values("pratik",20,"C++","pune",2018,95);
Query OK, 1 row affected (0.00 sec)
mysql> insert into student values("shubham",30,"C++","Jalna",2023,97);
Query OK, 1 row affected (0.00 sec)
Insert 8 records into Teacher table
mysgl> insert into teacher
values("Amruta",30,"C++","ahmedabad","C++",5,15000);
Query OK, 1 row affected (0.00 sec)
mysgl> insert into teacher
values("rakhi",30,"sql","ahmedabad","java",7,25000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into teacher values("bhakti",35,"python","pune","adv
java",8,25000);
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Query OK, 1 row affected (0.00 sec)
mysql> insert into teacher values("bhagat",38,"python","Jalna","adv
java",10,35000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into teacher
values("deshmukh",48,"python","Jalna","dbms",20,95000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into teacher
values("kolhe",8,"english","aurangabad","english",23,90000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into teacher
values("joshi",8,"hindi","aurangabad","hindi",23,50000);
Query OK, 1 row affected (0.00 sec)
mysql> insert into teacher
values("deshpande",10,"marathi","mumbai","marathi",33,950000);
Query OK, 1 row affected (0.00 sec)
mysql> select * from student;
+----+
| name | age | course | city | year | percentage |
+-----+
| akshaya | 22 | java | aurangabad | 2022 |
                                      80 I
| purva | 20 | dbms | pune | 2002 |
                                   90 |
aditi | 26 | python | pune
                        | 2002 |
                                  70 |
| mayuri | 26 | python | Mumbai | 2012 |
                                  76 I
56 |
| Ankit | 29 | C | Mumbai | 2000 |
                                  56 |
| pratik | 20 | C++ | pune | 2018 |
                                  95 |
| shubham | 30 | C++ | Jalna | 2023 |
+----+
8 rows in set (0.00 sec)
mysql> select * from teacher;
+-----+
      | age | course | city | subject_expert | year_of_experience |
name
salary I
+-----+
| Amruta | 30 | C++ | ahmedabad | C++ | 5 | 15000 |
```

```
| rakhi | 30 | sql | ahmedabad | java
                                                 7 | 25000 |
| bhakti | 35 | python | pune
                            | adv java
                                                  8 | 25000 |
| bhagat | 38 | python | Jalna
                           | adv java
                                                  10 | 35000 |
| deshmukh | 48 | python | Jalna | dbms
                                                   20 | 95000 |
       | 8 | english | aurangabad | english
                                                   23 | 90000 |
kolhe
      | 8 | hindi | aurangabad | hindi
                                                23 | 50000 |
l joshi
| deshpande | 10 | marathi | mumbai | marathi
                                                     33 | 950000
8 rows in set (0.00 sec)
4.
mysql> create table bkup student select * from student;
Query OK, 8 rows affected (0.01 sec)
Records: 8 Duplicates: 0 Warnings: 0
mysql> create table bkup teacher select * from teacher;
Query OK, 8 rows affected (0.01 sec)
Records: 8 Duplicates: 0 Warnings: 0
5.
mysql> select * from student where city ="pune" and city="Mumbai"
  -> ;
Empty set (0.00 sec)
mysql> select * from student where city ="pune" || city="Mumbai";
+-----+
| name | age | course | city | year | percentage |
+----+
| purva | 20 | dbms | pune | 2002 |
                                   90 I
| aditi | 26 | python | pune | 2002 |
                                  70 |
| mayuri | 26 | python | Mumbai | 2012 |
                                     76 |
56 |
| Ankit | 29 | C | Mumbai | 2000 |
                                   56 |
| pratik | 20 | C++ | pune | 2018 |
                                  95 |
+-----+
6 rows in set, 1 warning (0.00 sec)
```

```
6.
mysql> select * from teacher where city ="ahmedabad" and name like "A%"
   -> ;
+-----+
| name | age | course | city | | subject expert | year of experience | salary
+-----+
| Amruta | 30 | C++ | ahmedabad | C++ | 5 | 15000 |
1 row in set (0.00 sec)
 7.
mysql> select * from teacher where year_of_experience >=4;
+-----+
| name | age | course | city | subject_expert | year_of_experience | salary |
+-----+
| Amruta | 30 | C++ | ahmedabad | C++ | 5 | 15000 | | rakhi | 30 | sql | ahmedabad | java | 7 | 25000 | | bhakti | 35 | python | pune | adv java | 8 | 25000 | | bhagat | 38 | python | Jalna | adv java | 10 | 35000 | | deshmukh | 48 | python | Jalna | dbms | 20 | 95000 | | kolhe | 8 | english | aurangabad | english | 23 | 90000 | | joshi | 8 | hindi | aurangabad | hindi | 23 | 50000 |
| deshpande | 10 | marathi | mumbai | marathi | 33 | 950000 |
+-----+
8 rows in set (0.00 sec)
8.
mysql> select city, count(city) from student group by city;
| city | count(city) |
| aurangabad | 1 |
| pune |
             3 |
| Mumbai |
             3 |
| Jalna |
4 rows in set (0.00 sec)
9
ggregated column 'test.student.city'; this is incompatible with sql_mode=only_full_group_by
mysql> select city, count(city) from student group by city;
+----+
city | count(city) |
+----+
| aurangabad | 1 |
```

| pune |

| Mumbai | 3 |

3 |

```
| Jalna |
4 rows in set (0.00 sec)
11.
mysql> create table backup stru like student;
Query OK, 0 rows affected (0.00 sec)
mysql> desc backup stru;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
               |NO |PRI|NULL |
| student_id | int
      |varchar(20)|YES| |NULL |
name
       | int
              |YES | |NULL | |
age
| course | varchar(20) | YES | NULL |
      |varchar(20)|YES||NULL|
             |YES | |NULL | |
| year
      | int
| percentage | int
               |YES | |NULL |
| teacher id | int
               |YES | |NULL |
+----+---+----
8 rows in set (0.00 sec)
mysql> select * from backup_stru;
Empty set (0.00 sec)
mysgl> create table backup stru teacher like teacher;
Query OK, 0 rows affected (0.01 sec)
mysql> desc backup stru teacher;
+-----+
l Field
          | Type
                | Null | Key | Default | Extra |
+-----+
            | int
                   |NO |PRI|NULL |
| teacher id
name
           |varchar(20)|YES| |NULL|
age
          | int
                 |YES | |NULL | |
course
          | varchar(20) | YES | NULL |
          | varchar(20) | YES | NULL |
| city
| subject expert | varchar(10) | YES | | NULL |
| year of experience | int
                     |YES | |NULL |
| salary | int
               |YES | |NULL | |
8 rows in set (0.00 sec)
12
mysql> CREATE TABLE example_table (
     id INT AUTO INCREMENT PRIMARY KEY,
     name VARCHAR(255),
     url BLOB
 ->
 -> );
```

Query OK, 0 rows affected (0.01 sec)
mysql> CREATE TABLE blob_table (id INT AUTO_INCREMENT PRIMARY KEY, name
VARCHAR(255), url BLOB);
Query OK, 0 rows affected (0.00 sec)
mysql> INSERT INTO example_table (name, url) VALUES ('Example Website',
'http://www.example.com');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO blob_table(name, url) VALUES (' Website google', 'https://www.google.com/');
Query OK, 1 row affected (0.00 sec)
mysql>