Q.1)

mysql> create table students(id int primary key auto\_increment,name varchar(50), age int, course varchar(100),city varchar(50),year int,percentage decimal(5,2));

Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO students (name, age, course, city, year, percentage) VALUES

-> ('Megha', 20, 'Computer Science', 'Mumbai', 2, 85.5),

-> ('Ashwini', 21, 'Engineering', 'Pune', 3, 78.2),

-> ('Jone', 22, 'Business Administration', 'Ahmedabad', 4, 92.3),

-> ('Adhira', 19, 'Biology', 'Pune', 1, 79.8),

-> ('Angan', 20, 'Mathematics', 'Nashik', 2, 88.6),

-> ('Bala', 21, 'Psychology', 'Mumbai', 3, 75.4),

-> ('Akshay', 22, 'History', 'Nashik', 4, 81.9),

-> ('Meghashree', 20, 'English Literature', 'Pune', 2, 87.1);

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

q.3)

mysql> alter table students change column course subject varchar(100);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select\*from students;

+----+------------+------+-------------------------+-----------+------+------------+

| id | name | age | subject | city | year | percentage |

+----+------------+------+-------------------------+-----------+------+------------+

| 1 | Megha | 20 | Computer Science | Mumbai | 2 | 85.50 |

| 2 | Ashwini | 21 | Engineering | Pune | 3 | 78.20 |

| 3 | Jone | 22 | Business Administration | Ahmedabad | 4 | 92.30 |

| 4 | Adhira | 19 | Biology | Pune | 1 | 79.80 |

| 5 | Angan | 20 | Mathematics | Nashik | 2 | 88.60 |

| 6 | Bala | 21 | Psychology | Mumbai | 3 | 75.40 |

| 7 | Akshay | 22 | History | Nashik | 4 | 81.90 |

| 8 | Meghashree | 20 | English Literature | Pune | 2 | 87.10 |

+----+------------+------+-------------------------+-----------+------+------------+

8 rows in set (0.00 sec)

Q.4)

mysql> create table bkup\_students as select\*from students;

Query OK, 8 rows affected (0.03 sec)

Records: 8 Duplicates: 0 Warnings: 0

Q.5)

mysql> select\*from students where city in('Pune','Mumbai');

+----+------------+------+--------------------+--------+------+------------+

| id | name | age | subject | city | year | percentage |

+----+------------+------+--------------------+--------+------+------------+

| 1 | Megha | 20 | Computer Science | Mumbai | 2 | 85.50 |

| 2 | Ashwini | 21 | Engineering | Pune | 3 | 78.20 |

| 4 | Adhira | 19 | Biology | Pune | 1 | 79.80 |

| 6 | Bala | 21 | Psychology | Mumbai | 3 | 75.40 |

| 8 | Meghashree | 20 | English Literature | Pune | 2 | 87.10 |

+----+------------+------+--------------------+--------+------+------------+

5 rows in set (0.00 sec)

Q.2)

mysql> CREATE TABLE teacher (

-> id INT PRIMARY KEY AUTO\_INCREMENT,

-> name VARCHAR(255),

-> age INT,

-> course VARCHAR(100),

-> city VARCHAR(100),

-> subject\_expert VARCHAR(100),

-> year\_of\_experience INT,

-> salary DECIMAL(10, 2)

-> );

Query OK, 0 rows affected (0.06 sec)

mysql> INSERT INTO teacher (name, age, course, city, subject\_expert, year\_of\_experience, salary) VALUES

-> ('Amit Kumar', 35, 'Physics', 'Ahmedabad', 'Physics', 6, 50000),

-> ('Ananya Singh', 40, 'Mathematics', 'Ahmedabad', 'Mathematics', 7, 60000),

-> ('Akash Sharma', 38, 'Chemistry', 'New Delhi', 'Chemistry', 5, 55000),

-> ('Aparna Gupta', 42, 'Biology', 'Mumbai', 'Biology', 4, 52000),

-> ('Aditya Tiwari', 45, 'History', 'Kolkata', 'History', 8, 65000),

-> ('Anjali Dubey', 39, 'English', 'Bangalore', 'English', 6, 58000),

-> ('Ashish Mishra', 36, 'Computer Science', 'Hyderabad', 'Computer Science', 9, 70000),

-> ('Arpita Khanna', 41, 'Economics', 'Chennai', 'Economics', 5, 56000);

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> select\*from teacher;

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

| id | name | age | course | city | subject\_expert | year\_of\_experience | salary |

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

| 1 | Amit Kumar | 35 | Physics | Ahmedabad | Physics | 6 | 50000.00 |

| 2 | Ananya Singh | 40 | Mathematics | Ahmedabad | Mathematics | 7 | 60000.00 |

| 3 | Akash Sharma | 38 | Chemistry | New Delhi | Chemistry | 5 | 55000.00 |

| 4 | Aparna Gupta | 42 | Biology | Mumbai | Biology | 4 | 52000.00 |

| 5 | Aditya Tiwari | 45 | History | Kolkata | History | 8 | 65000.00 |

| 6 | Anjali Dubey | 39 | English | Bangalore | English | 6 | 58000.00 |

| 7 | Ashish Mishra | 36 | Computer Science | Hyderabad | Computer Science | 9 | 70000.00 |

| 8 | Arpita Khanna | 41 | Economics | Chennai | Economics | 5 | 56000.00 |

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

8 rows in set (0.00 sec)

mysql> create table bkup\_teacher as select\*from teacher;

Query OK, 8 rows affected (0.04 sec)

Records: 8 Duplicates: 0 Warnings: 0

Q.6)

mysql> select\*from teacher where city='Ahmedabad' and name like 'A%';

+----+--------------+------+-------------+-----------+----------------+--------------------+----------+

| id | name | age | course | city | subject\_expert | year\_of\_experience | salary |

+----+--------------+------+-------------+-----------+----------------+--------------------+----------+

| 1 | Amit Kumar | 35 | Physics | Ahmedabad | Physics | 6 | 50000.00 |

| 2 | Ananya Singh | 40 | Mathematics | Ahmedabad | Mathematics | 7 | 60000.00 |

+----+--------------+------+-------------+-----------+----------------+--------------------+----------+

2 rows in set (0.01 sec)

Q.7)

mysql> select\*from teacher where year\_of\_experience>=4;

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

| id | name | age | course | city | subject\_expert | year\_of\_experience | salary |

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

| 1 | Amit Kumar | 35 | Physics | Ahmedabad | Physics | 6 | 50000.00 |

| 2 | Ananya Singh | 40 | Mathematics | Ahmedabad | Mathematics | 7 | 60000.00 |

| 3 | Akash Sharma | 38 | Chemistry | New Delhi | Chemistry | 5 | 55000.00 |

| 4 | Aparna Gupta | 42 | Biology | Mumbai | Biology | 4 | 52000.00 |

| 5 | Aditya Tiwari | 45 | History | Kolkata | History | 8 | 65000.00 |

| 6 | Anjali Dubey | 39 | English | Bangalore | English | 6 | 58000.00 |

| 7 | Ashish Mishra | 36 | Computer Science | Hyderabad | Computer Science | 9 | 70000.00 |

| 8 | Arpita Khanna | 41 | Economics | Chennai | Economics | 5 | 56000.00 |

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

8 rows in set (0.00 sec)

Q.8)

mysql> update teacher set salary=salary+1000 where year\_of\_experience > 5;

Query OK, 5 rows affected (0.01 sec)

Rows matched: 5 Changed: 5 Warnings: 0

mysql> select\*from teacher;

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

| id | name | age | course | city | subject\_expert | year\_of\_experience | salary |

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

| 1 | Amit Kumar | 35 | Physics | Ahmedabad | Physics | 6 | 51000.00 |

| 2 | Ananya Singh | 40 | Mathematics | Ahmedabad | Mathematics | 7 | 61000.00 |

| 3 | Akash Sharma | 38 | Chemistry | New Delhi | Chemistry | 5 | 55000.00 |

| 4 | Aparna Gupta | 42 | Biology | Mumbai | Biology | 4 | 52000.00 |

| 5 | Aditya Tiwari | 45 | History | Kolkata | History | 8 | 66000.00 |

| 6 | Anjali Dubey | 39 | English | Bangalore | English | 6 | 59000.00 |

| 7 | Ashish Mishra | 36 | Computer Science | Hyderabad | Computer Science | 9 | 71000.00 |

| 8 | Arpita Khanna | 41 | Economics | Chennai | Economics | 5 | 56000.00 |

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

8 rows in set (0.00 sec)

Q.9)

mysql> select city, count(\*) as number\_of\_students from students where city in ('Pune','Mumbai') group by city;

+--------+--------------------+

| city | number\_of\_students |

+--------+--------------------+

| Mumbai | 2 |

| Pune | 3 |

+--------+--------------------+

2 rows in set (0.01 sec)

Q.10)

mysql> select\*from students where percentage>70;

+----+------------+------+-------------------------+-----------+------+------------+

| id | name | age | subject | city | year | percentage |

+----+------------+------+-------------------------+-----------+------+------------+

| 1 | Megha | 20 | Computer Science | Mumbai | 2 | 85.50 |

| 2 | Ashwini | 21 | Engineering | Pune | 3 | 78.20 |

| 3 | Jone | 22 | Business Administration | Ahmedabad | 4 | 92.30 |

| 4 | Adhira | 19 | Biology | Pune | 1 | 79.80 |

| 5 | Angan | 20 | Mathematics | Nashik | 2 | 88.60 |

| 6 | Bala | 21 | Psychology | Mumbai | 3 | 75.40 |

| 7 | Akshay | 22 | History | Nashik | 4 | 81.90 |

| 8 | Meghashree | 20 | English Literature | Pune | 2 | 87.10 |

+----+------------+------+-------------------------+-----------+------+------------+

8 rows in set (0.00 sec)

Q.10)

mysql> select\*from teacher where year\_of\_experience >3;

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

| id | name | age | course | city | subject\_expert | year\_of\_experience | salary |

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

| 1 | Amit Kumar | 35 | Physics | Ahmedabad | Physics | 6 | 51000.00 |

| 2 | Ananya Singh | 40 | Mathematics | Ahmedabad | Mathematics | 7 | 61000.00 |

| 3 | Akash Sharma | 38 | Chemistry | New Delhi | Chemistry | 5 | 55000.00 |

| 4 | Aparna Gupta | 42 | Biology | Mumbai | Biology | 4 | 52000.00 |

| 5 | Aditya Tiwari | 45 | History | Kolkata | History | 8 | 66000.00 |

| 6 | Anjali Dubey | 39 | English | Bangalore | English | 6 | 59000.00 |

| 7 | Ashish Mishra | 36 | Computer Science | Hyderabad | Computer Science | 9 | 71000.00 |

| 8 | Arpita Khanna | 41 | Economics | Chennai | Economics | 5 | 56000.00 |

+----+---------------+------+------------------+-----------+------------------+--------------------+----------+

8 rows in set (0.00 sec)

Q.11)

mysql> create table bkup\_students like students;

ERROR 1050 (42S01): Table 'bkup\_students' already exists

mysql> create table backup\_students like students;

Query OK, 0 rows affected (0.03 sec)

mysql> create table backup\_teacher like teacher;

Query OK, 0 rows affected (0.04 sec)

mysql> select\*from backup\_students;

Empty set (0.00 sec)

Q.12)

mysql> create table multimedia\_data(id int primary key auto\_increment,file\_name varchar(50),file\_type enum('image','video'),file\_data longblob);

Query OK, 0 rows affected (0.03 sec)

mysql> select\*from multimedia\_data;

Empty set (0.00 sec)