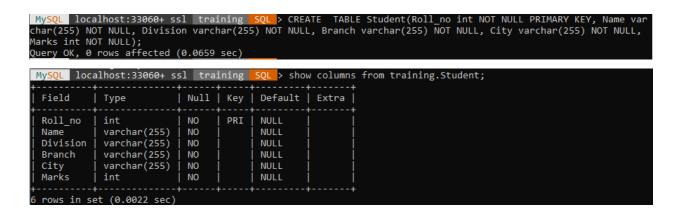
SQL Tasks

Task 2.

1. Create table Student with Schema(roll_no, name, division,branch, city, marks.

CREATE TABLE Student(Roll_no int NOT NULL PRIMARY KEY, Name varchar(255) NOT NULL, Division varchar(255) NOT NULL, Branch varchar(255) NOT NULL, City varchar(255) NOT NULL, Marks int NOT NULL);



2. Insert 10 Records to the Student table

INSERT INTO Student(Roll_no, Name, Division, Branch, City, Marks) values (1,"Abhishek Dubey","B", "Computer", "Mumbai", 50) repeat this 10 times to insert 10 records.

```
MySQL localhost:33060+ ssl training SQL insert into Student( Roll_no, Name, Division, Branch, City, Mark s) values (1, "Abhishek Dubey","B", "Computer", "Mumbai", 50), (2, "Abhishek Banerjee", "A", "Computer", "Kolk ata", 100), (3, "Aditya S", "C", "IT", "Delhi", 80), (4, "Zulfa", "A", "AI", "Pune", 100); Query OK, 4 rows affected (0.0150 sec)
Records: 4 Duplicates: 0 Warnings: 0
  MySQL localhost:33060+ ssl training
                                                                                                   5QL > select * from student;
     Roll_no | Name
                                                                                                                               | City
                                                                          | Division | Branch
                                                                                                                                                          Marks
                             Abhishek Dubey
                                                                                                                                   Mumbai
                                                                                                                                                                  50
                             Abhishek Banerjee
                                                                                                         Computer
                                                                                                                                    Kolkata
                                                                                                                                                                 100
                             Aditya S
                                                                                                                                                                  80
                                                                                                                                   Delhi
                             Zulfa
                                                                                                                                   Pune
                                                                                                                                                                 100
      rows in set (0.0010 sec)
MySOL localhost:33060+ ssl training SOL) insert into Student (Name, Division, Branch, City, Marks) values ("Prathmesh","B", "EXTC", "Mumbai", 69), ("Dev Ayush", "Computer", "Nagpur", 97), ( "Devansh", "A", "IT", "Delhi", 89), ("Arjun", "A", "AI", "Pune", 100);
Query OK, 4 rows affected (0.0106 sec)
    ords: 4 Duplicates: 0 Warnings: 0
SQL localhost:33060+ ssl training
SQL localhost:33060+ ssl training
 Roll_no | Name
                                                 Division | Branch
                 Abhishek Dubey
Abhishek Banerjee
Aditya S
Zulfa
Prathmesh
Dev Ayush
Devansh
                                                                   Computer
Computer
IT
AI
EXTC
                                                                                    Mumbai
Kolkata
Delhi
Pune
Mumbai
Nagpur
Delhi
                                                                                                         50
100
80
100
69
97
89
       "Pune", 75);
OK, 2 rows affected (0.0102 sec)
   ords: 2 Duplicates: 0 Warnings: 0
SQL localhost:33060+ ssl training SQL
                                                                     > select * from student;
 Roll_no | Name
                Abhishek Dubey
Abhishek Banerjee
Aditya S
Zulfa
Prathmesh
Dev Ayush
Devansh
Arjun
Swarai
                                                                  Computer
Computer
IT
AI
EXTC
Computer
IT
AI
EXTC
AI
                                                                                    Mumbai
Kolkata
Delhi
Pune
Mumbai
Nagpur
Delhi
Pune
Delhi
Pune
                                                                                                        50
100
80
100
69
97
89
100
90
75
```

3. List all the student name with their corresponding city

SELECT Name, City FROM Students;

```
MySQL localhost:33060+ ssl training SQL > SELECT Name, City from student;
 Name
                     City
 Abhishek Dubey
                      Mumbai
 Abhishek Banerjee
                      Kolkata
 Aditya S
                      Delhi
 Zulfa
                      Pune
 Prathmesh
                      Mumbai
 Dev Ayush
                      Nagpur
                      Delhi
 Devansh
 Arjun
                      Pune
 Swaraj
                      Delhi
 Devyansh
                      Pune
```

4. List all the distinct name of the student

SELECT DISTINCT Name FROM Student;



5. List all the records of the students will all the attributes

SELECT * FROM Students

MySQL lo	calhost:33060+ ssl	training S(QL > select	* from stu	udent;
Roll_no	Name	Division	Branch	City	Marks
1	Abhishek Dubey	В	Computer	Mumbai	50
2	Abhishek Banerjee	A	Computer	Kolkata	100
3	Aditya S	C	IT	Delhi	80
4	Zulfa	A	AI	Pune	100
5	Prathmesh	В	EXTC	Mumbai	69
6	Dev Ayush	A	Computer	Nagpur	97
7	Devansh	A	IT	Delhi	89
8	Arjun	A	AI	Pune	100
9	Swaraj	c	EXTC	Delhi	90
10	Devyansh	Α	AI	Pune	75
0	+	+	·	+	+

6. List all the students whose marks are greater than 75

SELECT * FROM Student WHERE Marks>75;

MySQL localhost:33060+ ssl training SQL > SELECT * FROM Student -> WHERE marks>75;							
Roll_no	Name	Division	Branch	City	Marks		
2 3 4 6 7 8 9	Abhishek Banerjee Aditya S Zulfa Dev Ayush Devansh Arjun Swaraj	A C A A A	Computer IT AI Computer IT AI EXTC	Kolkata Delhi Pune Nagpur Delhi Pune Delhi	100 80 100 97 89 100 90		
rows in s	set (0.0010 sec)						

7. List all the students whose name starts with Alphabet "S"

SELECT * FROM Student WHERE Name LIKE "s%";

```
        MySQL
        localhost:33060+ ssl
        training
        SQL
        > Select * FROM Student where Name LIKE "s%";

        +-----+
        | Roll_no | Name | Division | Branch | City | Marks |

        +----+
        | 9 | Swaraj | c | IT | Delhi | 90 |

        +----+
        | 17 | Delhi | 90 |

        +----+
        | 17 | Delhi | 10 |

        1 row in set (0.0012 sec)
        | 10 | 10 |
```

8. List all the students whose marks are in the range of 50 to 60

SELECT * FROM Student WHERE Marks BETWEEN 50 AND 60

9. List all the Students whose branch is "Computer" and City is "Pune"

SELECT * FROM Student WHERE BRANCH = "Computer" AND City = "Pune";

10. Update the branch of Student to "IT" whose roll_no is 9

UPDATE STUDENT set Branch = "IT" WHERE Roll_no = "9";

```
MySQL localhost:33060+ ssl training SQL > UPDATE STUDENT
-> set Branch = "IT"
-> WHERE Roll_no = "9";
Query OK, 1 row affected (0.0136 sec)
```

Delete the Student records whose division is BE(i have used
 B)

DELETE FROM Student WHERE Division = "B";

```
MySQL localhost:33060+ ssl training SQL > DELETE FROM Student where Division = "B";
Query OK, 2 rows affected (0.0105 sec)
```

Create another Table TE_Students with Schema(Roll_no, Name)

I have tried to create the table TE_Students from existing table Student.

```
MySQL localhost:33060+ ssl training SQL > CREATE TABLE TE_Students AS
-> SELECT roll_no, name
-> from Student;
Query OK, 8 rows affected (0.0482 sec)
```

13. List all the roll_no unionly in relation with Student and TE Students

SELECT Roll_no FROM Student UNON SELECT Roll_no FROM TE_Students;

```
MySQL localhost:33060+ ssl training SQL > SELECT Roll_no FROM Student UNION Select Roll_no FROM TE_Students;

+-----+
| Roll_no |
+-----+
| 2 |
| 3 |
| 4 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 1 |
| 1 |
| ------+
9 rows in set (0.0036 sec)
```

14. Display names of all students belonging to relation student in Upper Case.

SELECT UPPER(name) FROM Student;

 Display the binary and hex equivalent of marks for all the students belonging to Student relation

SELECT conv(Marks, 10, 2) FROM Student

(here the 10 is decimal system, and 2 is for binary system)

SELECT conv(Marks, 10, 16) FROM Student