# **SQL**

1. Consider the following table **SHOP**. Write SQL commands for the questions (i) to (v).

| Item_No | Item_Name | Price | Qty | Total |
|---------|-----------|-------|-----|-------|
| 1021 | Hamam | 24 | 2 | 48 |
| 987 | Colgate | 10 | 2 | 10 |
| 3623 | Surf | 52 | 1 | 52 |
| 277 | Shampoo | 2 | 5 | 10 |
| 4855 | Face wash | 57 | 1 | 57 |

    i. To display all the items whose Price is greater than 50.

    ii. To increase the Total of Item_No 987 as 20 (Price*Qty).

    iii. To list all the Item_Name and Qty in ascending order of Item_No whose Qty is less than 3.

    iv. To add an extra column Discount which accepts decimal numbers.

    v. To delete the column(s) whose quantity is 1.

**OUTPUT:**

```
Enter password:
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE Class12;
Query OK, 1 row affected (0.00 sec)

mysql> USE Class12;
Database changed
```

```
mysql> CREATE TABLE SHOP
    -> (Item_No INT,Item_Name CHAR(20),Price INT,Qty INT,Total INT);
Query OK, 0 rows affected (0.01 sec)

mysql> DESC SHOP;
+-----------+----------+------+-----+---------+-------+
| Field     | Type     | Null | Key | Default | Extra |
+-----------+----------+------+-----+---------+-------+
| Item_No   | int(11)  | YES  |     | NULL    |       |
| Item_Name | char(20) | YES  |     | NULL    |       |
| Price     | int(11)  | YES  |     | NULL    |       |
| Qty       | int(11)  | YES  |     | NULL    |       |
| Total     | int(11)  | YES  |     | NULL    |       |
+-----------+----------+------+-----+---------+-------+
5 rows in set (0.01 sec)
```

```
mysql> INSERT INTO SHOP VALUES
    -> (1021,'Hamam',24,2,48),
    -> (987,'Colgate',10,2,10),
    -> (3623,'Surf',52,1,52),
    -> (277,'Shampoo',2,5,10),
    -> (4855,'Face wash',57,1,57);
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM SHOP;
+---------+-----------+-------+------+-------+
| Item_No | Item_Name | Price | Qty  | Total |
+---------+-----------+-------+------+-------+
|    1021 | Hamam     |    24 |    2 |    48 |
|     987 | Colgate   |    10 |    2 |    10 |
|    3623 | Surf      |    52 |    1 |    52 |
|     277 | Shampoo   |     2 |    5 |    10 |
|    4855 | Face wash |    57 |    1 |    57 |
+---------+-----------+-------+------+-------+
5 rows in set (0.00 sec)
```

i. To display all the items whose Price is greater than 50.

```
mysql> SELECT * FROM SHOP WHERE Price>50;
+---------+-----------+-------+------+-------+
| Item_No | Item_Name | Price | Qty  | Total |
+---------+-----------+-------+------+-------+
|    3623 | Surf      |    52 |    1 |    52 |
|    4855 | Face wash |    57 |    1 |    57 |
+---------+-----------+-------+------+-------+
2 rows in set (0.00 sec)
```

ii. To increase the Total of Item_No 987 as 20 (Price*Qty).

```
mysql> UPDATE SHOP SET Total=Price*Qty WHERE Item_No=987;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM SHOP;
+---------+-----------+-------+------+-------+
| Item_No | Item_Name | Price | Qty  | Total |
+---------+-----------+-------+------+-------+
|    1021 | Hamam     |    24 |    2 |    48 |
|     987 | Colgate   |    10 |    2 |    20 |
|    3623 | Surf      |    52 |    1 |    52 |
|     277 | Shampoo   |     2 |    5 |    10 |
|    4855 | Face wash |    57 |    1 |    57 |
+---------+-----------+-------+------+-------+
5 rows in set (0.00 sec)
```

iii. To list all the Item_Name and Qty in ascending order of Item_No whose Qty is less than 3.

```
mysql> SELECT Item_Name,Qty FROM SHOP WHERE Qty<3 ORDER BY Item_No ASC;
+-----------+------+
| Item_Name | Qty  |
+-----------+------+
| Colgate   |    2 |
| Hamam     |    2 |
| Surf      |    1 |
| Face wash |    1 |
+-----------+------+
4 rows in set (0.00 sec)
```

iv. To add an extra column Discount which accepts decimal numbers.

```
mysql> ALTER TABLE SHOP ADD Discount FLOAT;
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> DESC SHOP;
+-----------+----------+------+-----+---------+-------+
| Field     | Type     | Null | Key | Default | Extra |
+-----------+----------+------+-----+---------+-------+
| Item_No   | int(11)  | YES  |     | NULL    |       |
| Item_Name | char(20) | YES  |     | NULL    |       |
| Price     | int(11)  | YES  |     | NULL    |       |
| Qty       | int(11)  | YES  |     | NULL    |       |
| Total     | int(11)  | YES  |     | NULL    |       |
| Discount  | float    | YES  |     | NULL    |       |
+-----------+----------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

v. To delete the column(s) whose quantity is 1.

```
mysql> DELETE FROM SHOP WHERE Qty=1;
Query OK, 2 rows affected (0.00 sec)

mysql> SELECT * FROM SHOP;
+---------+-----------+-------+------+-------+----------+
| Item_No | Item_Name | Price | Qty  | Total | Discount |
+---------+-----------+-------+------+-------+----------+
|    1021 | Hamam     |    24 |    2 |    48 |     NULL |
|     987 | Colgate   |    10 |    2 |    20 |     NULL |
|     277 | Shampoo   |     2 |    5 |    10 |     NULL |
+---------+-----------+-------+------+-------+----------+
3 rows in set (0.00 sec)
```

2. Consider the following table **EMPLOYEE**. Write SQL commands for the questions (i) to (v).

| Eid | Ename | Qual | Gender | Salary |
|---|---|---|---|---|
| 901 | Kumar | BE | M | 12000 |
| 201 | Louie | MCA | M | 30500 |
| 110 | Varshini | BTech | F | 13025 |
| 718 | Drishya | MCA | F | 11600 |
| 120 | Nissi Ann | MCA | F | 19000 |

     i. To display Eid and Ename whose Qual is MCA.

     ii. To list the employees in descending order of their Salary.

     iii. To display the count of the employees according to their Gender.

     iv. To find out the minimum Salary and maximum Salary of the employees.

     v. To delete the records whose Salary is above 15000.

**OUTPUT:**

```
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mysql> CREATE DATABASE Class12;
Query OK, 1 row affected (0.00 sec)

mysql> USE Class12;
Database changed
```

```
mysql> CREATE TABLE EMPLOYEE
    -> (Eid INT, Ename CHAR(20), Qual CHAR(10), Gender CHAR, Salary INT);
Query OK, 0 rows affected (0.02 sec)

mysql> DESC EMPLOYEE;
+--------+----------+------+-----+---------+-------+
| Field  | Type     | Null | Key | Default | Extra |
+--------+----------+------+-----+---------+-------+
| Eid    | int(11)  | YES  |     | NULL    |       |
| Ename  | char(20) | YES  |     | NULL    |       |
| Qual   | char(10) | YES  |     | NULL    |       |
| Gender | char(1)  | YES  |     | NULL    |       |
| Salary | int(11)  | YES  |     | NULL    |       |
+--------+----------+------+-----+---------+-------+
5 rows in set (0.01 sec)
```

```
mysql> INSERT INTO EMPLOYEE VALUES
    -> (901,'Kumar','BE','M',12000),
    -> (201,'Louie','MCA','M',30500),
    -> (110,'Varshini','BTech','F',13025),
    -> (718,'Drishya','MCA','F',11600),
    -> (120,'Nissi Ann','MCA','F',19000);
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM EMPLOYEE;
+-------+------------+--------+---------+---------+
| Eid   | Ename      | Qual   | Gender  | Salary  |
+-------+------------+--------+---------+---------+
|   901 | Kumar      | BE     | M       |   12000 |
|   201 | Louie      | MCA    | M       |   30500 |
|   110 | Varshini   | BTech  | F       |   13025 |
|   718 | Drishya    | MCA    | F       |   11600 |
|   120 | Nissi Ann  | MCA    | F       |   19000 |
+-------+------------+--------+---------+---------+
5 rows in set (0.00 sec)
```

i.  To display Eid and Ename whose Qual is MCA.

```
mysql> SELECT Eid,Ename FROM EMPLOYEE WHERE Qual='MCA';
+-------+------------+
| Eid   | Ename      |
+-------+------------+
|   201 | Louie      |
|   718 | Drishya    |
|   120 | Nissi Ann  |
+-------+------------+
3 rows in set (0.00 sec)
```

ii. To list the employees in descending order of their Salary.

```
mysql> SELECT * FROM EMPLOYEE ORDER BY SALARY DESC;
+-------+------------+--------+---------+---------+
| Eid   | Ename      | Qual   | Gender  | Salary  |
+-------+------------+--------+---------+---------+
|   201 | Louie      | MCA    | M       |   30500 |
|   120 | Nissi Ann  | MCA    | F       |   19000 |
|   110 | Varshini   | BTech  | F       |   13025 |
|   901 | Kumar      | BE     | M       |   12000 |
|   718 | Drishya    | MCA    | F       |   11600 |
+-------+------------+--------+---------+---------+
5 rows in set (0.00 sec)
```

iii. To display the count of the employees according to their Gender.

```
mysql> SELECT COUNT(*),GENDER FROM EMPLOYEE GROUP BY GENDER;
+----------+--------+
| COUNT(*) | GENDER |
+----------+--------+
|        2 | M      |
|        3 | F      |
+----------+--------+
2 rows in set (0.01 sec)
```

iv.  To find out the minimum Salary and maximum Salary of the employees.

```
mysql> SELECT MIN(Salary) AS 'LOWEST SALARY', MAX(Salary) AS 'HIGHEST SALARY' FROM EMPLOYEE;
+---------------+----------------+
| LOWEST SALARY | HIGHEST SALARY |
+---------------+----------------+
|         11600 |          30500 |
+---------------+----------------+
1 row in set (0.01 sec)
```

v.  To delete the records whose Salary is above 15000.

```
mysql> DELETE FROM EMPLOYEE WHERE Salary>15000;
Query OK, 2 rows affected (0.01 sec)

mysql> SELECT * FROM EMPLOYEE;
+------+----------+-------+--------+--------+
| Eid  | Ename    | Qual  | Gender | Salary |
+------+----------+-------+--------+--------+
|  901 | Kumar    | BE    | M      |  12000 |
|  110 | Varshini | BTech | F      |  13025 |
|  718 | Drishya  | MCA   | F      |  11600 |
+------+----------+-------+--------+--------+
3 rows in set (0.00 sec)
```

3. Consider the following table **STUDENT**. Write SQL commands for the questions (i) to (v).

| Roll_no | Stud_name | Maths | Computer | Physics | Chemistry |
|---------|-----------|-------|----------|---------|-----------|
| 1201 | Hari | 48 | 89 | 79 | 99 |
| 1202 | Karthik | 78 | 100 | 89 | 72 |
| 1203 | Varun | 52 | 90 | 93 | 88 |
| 1204 | Gokul | 69 | 81 | 75 | 96 |
| 1205 | Vignesh | 57 | 100 | 100 | 98 |

    i. To increase the Maths mark of all the students by 5.

    ii. To display the Students details whose mark is 100 in Computer.

    iii. To display the Name and Roll Number of the Students whose name starts with letter 'V'.

    iv. To set Roll Number column as Primary Key.

    v. To delete the records whose Physics marks are below 85.

**OUTPUT:**

```
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mysql> CREATE DATABASE Class12;
Query OK, 1 row affected (0.00 sec)

mysql> USE Class12;
Database changed
```

```
mysql> CREATE TABLE STUDENT
    -> (Roll_no INT, Stud_name CHAR(20),Maths INT, Computer INT, Physics INT, Chemistry INT);
Query OK, 0 rows affected (0.01 sec)

mysql> DESC STUDENT;
+-----------+----------+------+-----+---------+-------+
| Field     | Type     | Null | Key | Default | Extra |
+-----------+----------+------+-----+---------+-------+
| Roll_no   | int(11)  | YES  |     | NULL    |       |
| Stud_name | char(20) | YES  |     | NULL    |       |
| Maths     | int(11)  | YES  |     | NULL    |       |
| Computer  | int(11)  | YES  |     | NULL    |       |
| Physics   | int(11)  | YES  |     | NULL    |       |
| Chemistry | int(11)  | YES  |     | NULL    |       |
+-----------+----------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

```
mysql> INSERT INTO STUDENT VALUES
    -> (1201,'Hari',48,89,79,99),
    -> (1202,'Karthik',78,100,89,72),
    -> (1203,'Varun',52,90,93,88),
    -> (1204,'Gokul',69,81,75,96),
    -> (1205,'Vignesh',57,100,100,98);
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM STUDENT;
+---------+-----------+-------+----------+---------+-----------+
| Roll_no | Stud_name | Maths | Computer | Physics | Chemistry |
+---------+-----------+-------+----------+---------+-----------+
|    1201 | Hari      |    48 |       89 |      79 |        99 |
|    1202 | Karthik   |    78 |      100 |      89 |        72 |
|    1203 | Varun     |    52 |       90 |      93 |        88 |
|    1204 | Gokul     |    69 |       81 |      75 |        96 |
|    1205 | Vignesh   |    57 |      100 |     100 |        98 |
+---------+-----------+-------+----------+---------+-----------+
5 rows in set (0.00 sec)
```

i. To increase the Maths mark of all the students by 5.

```
mysql> UPDATE STUDENT SET Maths=Maths+5;
Query OK, 5 rows affected (0.00 sec)
Rows matched: 5  Changed: 5  Warnings: 0

mysql> SELECT * FROM STUDENT;
+---------+-----------+-------+----------+---------+-----------+
| Roll_no | Stud_name | Maths | Computer | Physics | Chemistry |
+---------+-----------+-------+----------+---------+-----------+
|    1201 | Hari      |    53 |       89 |      79 |        99 |
|    1202 | Karthik   |    83 |      100 |      89 |        72 |
|    1203 | Varun     |    57 |       90 |      93 |        88 |
|    1204 | Gokul     |    74 |       81 |      75 |        96 |
|    1205 | Vignesh   |    62 |      100 |     100 |        98 |
+---------+-----------+-------+----------+---------+-----------+
5 rows in set (0.00 sec)
```

ii. To display the Students details whose mark is 100 in Computer.

```
mysql> SELECT * FROM STUDENT WHERE Computer=100;
+---------+-----------+-------+----------+---------+-----------+
| Roll_no | Stud_name | Maths | Computer | Physics | Chemistry |
+---------+-----------+-------+----------+---------+-----------+
|    1202 | Karthik   |    83 |      100 |      89 |        72 |
|    1205 | Vignesh   |    62 |      100 |     100 |        98 |
+---------+-----------+-------+----------+---------+-----------+
2 rows in set (0.01 sec)
```

iii.   To display the Name and Roll Number of the Students whose name starts with letter 'V'.

```
[mysql> SELECT Stud_name, Roll_no FROM STUDENT WHERE Stud_name LIKE 'V%';
+------------+---------+
| Stud_name | Roll_no |
+------------+---------+
| Varun      |    1203 |
| Vignesh    |    1205 |
+------------+---------+
2 rows in set (0.01 sec)
```

iv.  To set Roll Number column as Primary Key.

```
[mysql> ALTER TABLE STUDENT MODIFY Roll_no INT PRIMARY KEY;
Query OK, 0 rows affected (0.14 sec)
Records: 0  Duplicates: 0  Warnings: 0

[mysql> DESC STUDENT;
+-----------+----------+------+-----+---------+-------+
| Field     | Type     | Null | Key | Default | Extra |
+-----------+----------+------+-----+---------+-------+
| Roll_no   | int(11)  | NO   | PRI | NULL    |       |
| Stud_name | char(20) | YES  |     | NULL    |       |
| Maths     | int(11)  | YES  |     | NULL    |       |
| Computer  | int(11)  | YES  |     | NULL    |       |
| Physics   | int(11)  | YES  |     | NULL    |       |
| Chemistry | int(11)  | YES  |     | NULL    |       |
+-----------+----------+------+-----+---------+-------+
6 rows in set (0.01 sec)
```

v.   To delete the records whose Physics marks are below 85.

```
[mysql> DELETE FROM STUDENT WHERE Physics<85
[    -> ;
Query OK, 2 rows affected (0.00 sec)

[mysql> SELECT * FROM STUDENT;
+---------+-----------+-------+----------+---------+-----------+
| Roll_no | Stud_name | Maths | Computer | Physics | Chemistry |
+---------+-----------+-------+----------+---------+-----------+
|    1202 | Karthik   |    83 |      100 |      89 |        72 |
|    1203 | Varun     |    57 |       90 |      93 |        88 |
|    1205 | Vignesh   |    62 |      100 |     100 |        98 |
+---------+-----------+-------+----------+---------+-----------+
3 rows in set (0.00 sec)
```

4. Consider the following table **COLLEGE**. Write SQL commands for the questions (i) to (v).

| ID_No | Name | College | Branch | Roll_No | Age |
|-------|------|---------|--------|---------|-----|
| 91 | Ramesh | NIT | MECH | 8642046 | 20 |
| 72 | Jagan | MANIPAL | LAW | 8642079 | 24 |
| 64 | Kunal | IIT | AEROSPACE | 8642011 | 18 |
| 18 | Haneefa | IIT | CIVIL | 8642054 | 22 |
| 78 | Michael | IIT | CSE | 8642002 | 20 |

   i. To display all the students studying at IIT under the age of 20.

   ii. To change the Branch of Name 'Kunal' to CSE.

   iii. To display the number of students in IIT, NIT & MANIPAL.

   iv. To display the details in ascending order of Roll Number.

   v. To delete the records which have Age greater than 20.

**OUTPUT:**

```
Enter password:
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE Class12;
Query OK, 1 row affected (0.00 sec)

mysql> USE Class12;
Database changed
```

```
mysql> CREATE TABLE COLLEGE
    -> (ID_No INT, Name CHAR(20), College CHAR(20), Branch CHAR(20),Roll_No INT,Age INT);
Query OK, 0 rows affected (0.01 sec)

mysql> DESC COLLEGE;
+---------+----------+------+-----+---------+-------+
| Field   | Type     | Null | Key | Default | Extra |
+---------+----------+------+-----+---------+-------+
| ID_No   | int(11)  | YES  |     | NULL    |       |
| Name    | char(20) | YES  |     | NULL    |       |
| College | char(20) | YES  |     | NULL    |       |
| Branch  | char(20) | YES  |     | NULL    |       |
| Roll_No | int(11)  | YES  |     | NULL    |       |
| Age     | int(11)  | YES  |     | NULL    |       |
+---------+----------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

```
mysql> INSERT INTO COLLEGE VALUES
    -> (91,'Ramesh','NIT','MECH',8642046,20),
    -> (72,'Jagan','MANIPAL','LAW',8642079,24),
    -> (64,'Kunal','IIT','AEROSPACE',8642011,18),
    -> (18,'Haneefa','IIT','CIVIL',8642054,22),
    -> (78,'Michael','IIT','CSE',8642002,20);
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM COLLEGE;
+--------+---------+---------+-----------+----------+------+
| ID_No  | Name    | College | Branch    | Roll_No  | Age  |
+--------+---------+---------+-----------+----------+------+
|     91 | Ramesh  | NIT     | MECH      | 8642046  |   20 |
|     72 | Jagan   | MANIPAL | LAW       | 8642079  |   24 |
|     64 | Kunal   | IIT     | AEROSPACE | 8642011  |   18 |
|     18 | Haneefa | IIT     | CIVIL     | 8642054  |   22 |
|     78 | Michael | IIT     | CSE       | 8642002  |   20 |
+--------+---------+---------+-----------+----------+------+
5 rows in set (0.00 sec)
```

i.  To display all the students studying at IIT under the age of 20.

```
mysql> SELECT * FROM COLLEGE WHERE College='IIT' and Age<20;
+--------+-------+---------+-----------+----------+------+
| ID_No  | Name  | College | Branch    | Roll_No  | Age  |
+--------+-------+---------+-----------+----------+------+
|     64 | Kunal | IIT     | AEROSPACE | 8642011  |   18 |
+--------+-------+---------+-----------+----------+------+
1 row in set (0.00 sec)
```

ii.  To change the Branch of Name 'Kunal' to CSE.

```
mysql> UPDATE COLLEGE SET BRANCH='CSE' WHERE Name='Kunal';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM COLLEGE;
+--------+---------+---------+--------+----------+------+
| ID_No  | Name    | College | Branch | Roll_No  | Age  |
+--------+---------+---------+--------+----------+------+
|     91 | Ramesh  | NIT     | MECH   | 8642046  |   20 |
|     72 | Jagan   | MANIPAL | LAW    | 8642079  |   24 |
|     64 | Kunal   | IIT     | CSE    | 8642011  |   18 |
|     18 | Haneefa | IIT     | CIVIL  | 8642054  |   22 |
|     78 | Michael | IIT     | CSE    | 8642002  |   20 |
+--------+---------+---------+--------+----------+------+
5 rows in set (0.00 sec)
```

iii. To display the number of students in IIT, NIT & MANIPAL.

```
[mysql> SELECT COUNT(*),College FROM COLLEGE GROUP BY College;
+----------+----------+
| COUNT(*) | College  |
+----------+----------+
|        1 | NIT      |
|        1 | MANIPAL  |
|        3 | IIT      |
+----------+----------+
3 rows in set (0.00 sec)
```

iv. To display the details in ascending order of Roll Number.

```
[mysql> SELECT * FROM COLLEGE ORDER BY Roll_No ASC;
+--------+----------+----------+---------+----------+------+
| ID_No  | Name     | College  | Branch  | Roll_No  | Age  |
+--------+----------+----------+---------+----------+------+
|     78 | Michael  | IIT      | CSE     | 8642002  |   20 |
|     64 | Kunal    | IIT      | CSE     | 8642011  |   18 |
|     91 | Ramesh   | NIT      | MECH    | 8642046  |   20 |
|     18 | Haneefa  | IIT      | CIVIL   | 8642054  |   22 |
|     72 | Jagan    | MANIPAL  | LAW     | 8642079  |   24 |
+--------+----------+----------+---------+----------+------+
5 rows in set (0.00 sec)
```

v. To delete the records which have Age greater than 20.

```
[mysql> DELETE FROM COLLEGE WHERE Age>20;
Query OK, 2 rows affected (0.00 sec)

[mysql> SELECT * FROM COLLEGE;
+--------+----------+----------+---------+----------+------+
| ID_No  | Name     | College  | Branch  | Roll_No  | Age  |
+--------+----------+----------+---------+----------+------+
|     91 | Ramesh   | NIT      | MECH    | 8642046  |   20 |
|     64 | Kunal    | IIT      | CSE     | 8642011  |   18 |
|     78 | Michael  | IIT      | CSE     | 8642002  |   20 |
+--------+----------+----------+---------+----------+------+
3 rows in set (0.00 sec)
```