**SQL Queries**

**MYSQL : -**

MySQL database server manages the databases and tables, controls user

access and processes the SQL queries.

mysql> **show databases ;**

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| sys |

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

4 rows in set (0.00 sec)

* **Create : -**

mysql> **create database library ;**

Query OK, 1 row affected (0.00 sec)

mysql> **use library ;**

Database changed

mysql> **create table books** (title varchar(100), name varchar(100 ) , price int not null );

Query OK, 0 rows affected (0.37 sec)

mysql> **describe books ;**

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

| Field | Type | Null | Key | Default | Extra |

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

| title | varchar(100) | YES | | NULL | |

| name | varchar(100) | YES | | NULL | |

| price | int(11) | NO | | NULL | |

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

3 rows in set (0.01 sec)

* **Insert :-**

mysql> **insert into books values ("Literature" , "nimbus" , 50 );**

Query OK, 1 row affected (0.07 sec)

mysql> **insert into books values ("GRAMMER" , "BBC" , 280 );**

Query OK, 1 row affected (0.07 sec)

mysql> **insert into books values ("Math" , "trigno" , 280 );**

Query OK, 1 row affected (0.05 sec)

* **Select :-**

mysql> **select \* from books ;**

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

| title | name | price |

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

| Literature | nimbus | 50 |

| GRAMMER | BBC | 280 |

| Math | trigno | 280 |

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

3 rows in set (0.00 sec)

mysql> **select \* from books where price = 50 ;**

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

| title | name | price |

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

| Literature | nimbus | 50 |

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

1 row in set (0.02 sec)

* **Alter :-**

mysql> **alter table notebook drop id ;**

Query OK, 0 rows affected (0.61 sec)

mysql**> alter table notebook add column id int not null first;**

Query OK, 0 rows affected (0.59 sec)

mysql> **alter table notebook change sno Sno int ;**

Query OK, 0 rows affected (0.12 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> **alter table notebook modify Sno int auto\_increment ;**

Query OK, 0 rows affected (0.90 sec)

Records: 0 Duplicates: 0 Warnings: 0

* **Update : -**

mysql> **update notebook set quantity = 110 where Sno = 4 ;**

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

* **Delete :-**

mysql> **delete from notebook where Sno =1 ;**

Query OK, 1 row affected (0.07 sec)

* **Like Clause : -**

mysql> **select \* from notebook where brand like '%ec%' ;**

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

| Sno | BRAND | TYPE | QUANTITY |

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

| 4 | Checkmate | Rough | 110 |

| 5 | Checkmate | Fair | 150 |

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

2 rows in set (0.00 sec)

* **Sorting :-**mysql> **select \* from notebook order by quantity asc ;**

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

| Sno | BRAND | TYPE | QUANTITY |

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

| 3 | Classmate | Rough | 15 |

| 4 | Checkmate | Rough | 110 |

| 2 | Classmate | fair | 130 |

| 5 | Checkmate | Fair | 150 |

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

4 rows in set (0.04 sec)

* **JOIN :-**

Mysql >

**select a.quantity , a.brand from notebook a right join books b on quantity = quant ;**

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

| quantity | brand |

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

| 130 | Classmate |

| 15 | Classmate |

| 150 | Checkmate |

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

3 rows in set (0.00 sec)

* **NULL values :-**

**IS NOT NULL**− This operator returns true, if the column value is not NULL.

mysql> SELECT \* from tcount\_tbl

WHERE tutorial\_count IS NOT NULL;

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

| tutorial\_author | tutorial\_count |

|  |  |
| --- | --- |
|  |  |

| mahran | 20 |

| Gill | 20 |

|  |  |
| --- | --- |
|  |  |

**IS NULL**− This operator returns true, if the column value is NULL

mysql> SELECT \* FROM tcount\_tbl

-> WHERE tutorial\_count IS NULL;

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

| tutorial\_author | tutorial\_count |

|  |  |
| --- | --- |
|  |  |

| mahnaz | NULL |

| Jen | NULL |

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