

# CLASS NOTES

Class: XI

Date: 13-Nov-2021

Subject: Informatics Practices

Topic: Structured Query Language

## Database Handling commands in MySQL

### Selecting Specific Records – WHERE clause

#### WHERE <Condition>

We can select specific records by specifying conditions with WHERE clause.

```
mysql> SELECT * FROM Student WHERE City='Mumbai';
```

```
mysql> SELECT Name, Fname, City from Student WHERE Class >10;
```

#### Relational Operators

We can use the following Relational operators in condition.

=, >, <, >=, <=, <>, !=, IS, LIKE, IN, BETWEEN

#### Logical Operators

We can use the following Logical Operators to connect two conditions.

OR, AND, NOT (!)

```
mysql> SELECT Name, City from Student WHERE City <> 'Mumbai' AND Class>10;
```

```
mysql> SELECT * FROM empl WHERE Sal >10000 OR Job ='Manager';
```

```
mysql> SELECT * FROM Student WHERE NOT Grade='A';
```

#### Relational Operators

1. Give MySql query to display the records with the deptno 20.

2. Give MySQL query to display the records with the salary between 1000 and 2000 (both inclusive).
3. Give MySQL query to display the records with the job as Salesman.
4. Give MySQL query to display the records with the salary more than 1000 and job as Clerk.
5. Give MySQL query to display the records who have joined after 31-12-1980.
6. Give MySQL query to display the records who have joined in the year 1982.
7. Give MySQL query to display the records except with the job President.
8. Give MySQL query to display the records who are not entitled for commission i.e records with the commission as null.
9. Display ename, sal and Annual Salary of all the employees.
10. Display name and job of all the employees with the job as Analyst or Salesman.

#### Specifying Range of Values – BETWEEN Operator

```
mysql> SELECT * FROM empl WHERE Sal BETWEEN 5000 AND 10000 ;
```

The same query can also be written as –

```
mysql> SELECT * FROM empl WHERE Sal >= 5000 AND Sal<=10000 ;
```

Other Logical operators also can be applied

```
mysql> SELECT * FROM empl WHERE NOT Sal BETWEEN 5000 AND 10000 ;
```

#### Specifying List – IN Operator

```
mysql> SELECT * FROM empl WHERE Sal IN (5000, 10000) ;
```

The same query can also be written as –

```
mysql> SELECT * FROM empl WHERE Sal = 5000 OR Sal =10000 ;
```

```
mysql> SELECT * FROM Student WHERE City IN ('Mumbai', 'Delhi','Kanpur') ;
```