**SQL QUERIES TO PRACTICE**

USE COMPANY\_1;

1. WSQTD the first name, last name from EMP table.

SELECT FNAME, LNAME

FROM EMP;

1. WSQTD the first name, job and dob from EMP table.

SELECT FNAME, JOB, DOB

FROM EMP;

1. WSQTD the DETAILS from EMP table.

SELECT \* FROM EMP;

1. WSQTD the EMP FNAME, SAL ALONG ANNUAL SALARY from EMP table.

SELECT FNAME, SAL, (SAL\*12) AS ANNUAL\_SALARY

FROM EMP;

1. WSQTD the EMP FNAME, SAL ALONG ANNUAL SALARY WITH 50000 BONUS from EMP table.

SELECT FNAME, SAL, ((SAL\*12) + 50000) AS ANNUAL\_SALARY

FROM EMP;

1. WSQTD the EMP FNAME, SAL WITH 5000 RS. INCENTIVE from EMP table.

SELECT FNAME, (SAL+5000) AS SALARY\_WITH\_INCENTIVE

FROM EMP;

1. WSQTD the EMP FNAME, SAL WITH 5% INCENTIVE from EMP table.

SELECT FNAME, (SAL + (SAL \* 0.05)) AS SALARY\_WITH\_5PERCENT\_INCENTIVE

FROM EMP;

1. WSQTD the EMP FNAME, SAL WITH 7% DEDUCTION from EMP table.

SELECT FNAME, (SAL - (SAL \* 0.07)) AS SALARY\_WITH\_7PERCENT\_DEDUCTION

FROM EMP;

1. WSQTD the EMP DETAILS WITH ANNUAL SALARY from EMP table.

SELECT \*, SAL\*12 AS ANNUAL\_SALARY

FROM EMP;

1. WAQTD THE EMP FNAME, SAL WITH 10% INCENTIVE AND COMMISION WITH 7% DEDUCTION.

SELECT FNAME, SAL + SAL\*0.1, COMM - COMM\*0.07

FROM EMP;

1. WAQTD THE EMP FNAME, LNAME, JOB AS DESIGNATION, DNO AS TEAM FROM EMP TABLE.

SELECT FNAME, LNAME, JOB AS DESIGNATION, DNO AS TEAM

FROM EMP;

1. WAQTD THE DIFFERENT JOB ROLES PRESENT IN THE COMPANY.

SELECT DISTINCT JOB

FROM EMP;

1. WAQTD THE DIFFERENT DEPARTMNENT NUMBER AVAILABLE IN THE COMPANY

SELECT DISTINCT DNO

FROM EMP;

1. WAQTD THE DETAILS OF EMP WHOSE FNAME IS

AMAN.

SELECT \*

FROM EMP

WHERE FNAME='AMAN';

1. WAQTD THE DETAILS OF EMP WHOSE FNAME IS

AMAN.

SELECT \*

FROM EMP

WHERE FNAME='AMAN';

1. WAQTD THE EMP FNAME, LNAME, JOB IF THE EMP

IS WORKING AS SALESMAN.

SELECT FNAME, LNAME, JOB

FROM EMP

WHERE JOB='SALESMAN';

1. WAQTD THE DETAILS OF EMP IF THE EMP IS WORKING IN DEPT 113.

SELECT \* FROM EMP

WHERE DNO=113;

1. WAQTD THE EMP FNAME, LNAME, JOB, SAL IF THE EMP IS GETTING SALARY MORE THAN 35000.

SELECT FNAME, LNAME, JOB, SAL

FROM EMP

WHERE SAL>35000;

1. WAQTD THE DETAILS OF EMP IF THE EMP WAS HIRED AFTER 2017.

SELECT \* FROM EMP WHERE DOJ>'2017-12-31';

1. WAQTD THE EMP FNAME, DOB IF THE EMP WAS BORN BEFORE 1995. SELECT FNAME, DOB FROM EMP WHERE DOB<'1995-01-01'; 21.
2. WAQTD THE DETAILS OF EMP IF THE EMP IS GETTING SALARY MORE THAN 40000 AND LESS THAN 50000.

SELECT \* FROM EMP WHERE SAL>40000 AND SAL<50000;

**OPERATORS**

1. Arithmetic Operator (+, -, \*, /, %)

2. Relational Operator (>, =, < =, !=)

3. Logical Operator (OR, AND, NOT).

4. Special Operator (IN, NOT IN, BETWEEN, NOT BETWEEN, IS, LIKE, NOT LIKE)

5. Sub Query Operator (ALL, ANY, EXISTS, NOT EXISTS)

**AND Operator:** The output will be true if all the conditions (input) is true.

**OR Operator:** The output will be true if any one of the conditions (input) is true.

1. WAQTD THE DETAILS OF EMP IF THE EMP IS WORKING AS SALESMAN, MANAGER.

SELECT \* FROM EMP WHERE JOB='SALESMAN' OR JOB='MANAGER';

1. WAQTD THE EMP FNAME, LNAME, JOB, SAL IF THE EMP IS GETTING SALARY MORE THAN 40000 AND WORKING AS SALESMAN.

SELECT FNAME, LNAME, JOB, SAL FROM EMP WHERE SAL>40000 AND JOB='SALESMAN';

24. WAQTD THE DETAILS OF EMP IF THE EMP IS BORN DURING THE YEAR 1995. SELECT \* FROM EMP WHERE DOB ('1995-01-01') AND DOB ('1995-12-31');

25. WAQTD THE EMP FNAME, LNAME, JOB, DNO IF THE EMP IS WORKING AS SALESMAN, MANAGER IN DNO 110 OR 111 OR 112.

SELECT FNAME, LNAME, JOB, DNO FROM EMP WHERE (JOB='SALESMAN' OR JOB='MANAGER') AND (DNO=110 OR DNO=111 OR DNO=112);

OR

SELECT FNAME, LNAME, JOB, DNO FROM EMP WHERE JOB IN ('SALESMAN','MANAGER') AND DNO IN (110,111,112);

**IN/NOT IN Operator:**

IN operator is a multivalued operator which will take single value at LHS and multiple values at RHS. Syntax: column\_name IN/NOT IN (v1, v2, …., vn);

Note: > IN operator works in the form of OR operator. > NOT IN operator works in the form of AND operator.

26. WAQTD THE DETAILS OF EMP IF THE EMP IS WORKING AS SALESMAN, DISPATCHER OR ACCOUNTANT IN DEPT 110, 111 OR 112.

SELECT \* FROM EMP

WHERE JOB IN ('SALESMAN','DISPATCHER','ACCOUNTANT') AND DNO IN (110,111,112);

27. WAQTD THE EMP FNAME, JOB EXCEPT CEO.

SELECT FNAME, JOBFROM EMP

WHERE JOB='CEO';

28. WAQTD THE DETAILS OF EMP WHO ARE WORKING AS MANAGER OR DEVELOPER OR TESTER BUT NOT IN DEPT 111 OR 112.(without using IN/NOT IN operator)

SELECT \* FROM EMP

WHERE (JOB='MANAGER' OR JOB='DEVELOPER' OR

JOB='TESTER') AND (DNO=111 AND DNO=112);

OR

SELECT \* FROM EMP

WHERE JOB IN ('MANAGER','DEVELOPER','TESTER') AND DNO NOT IN (111,112);

29. WAQTD THE DETAILS ALONG WITH ANNUAL SALARY (alias has to be given) IF THE EMP IS GETTING ANNUAL SALARY MORE THAN 650000.

SELECT \*, SAL\*12 ANNUAL\_SAL

FROM EMP

WHERE SAL\*12>650000;

30. WAQTD THE EMP FNAME, SAL, DNO IF THE EMP IS GETTING SALARY MORE THAN OR EQUAL TO 40000 AND LESS THAN OR EQUAL TO 60000.

SELECT FNAME, SAL, DNO

FROM EMP

WHERE SAL=40000 AND SAL=60000;

or

SELECT FNAME, SAL, DNO

FROM EMP

WHERE SAL BETWEEN 40000 AND 50000;

**BETWEEN Operator:**

> Whenever we come across range of values, we go for BETWEEN operator.

> BETWEEN operator includes the range value.

Syntax: column\_name BETWEEN lower\_range AND higher\_range;

31. WAQTD THE DETAILS OF EMP IF THE EMP WAS HIRED DURING 2021.

SELECT \* FROM EMP

WHERE DOJ BETWEEN '2021-01-01' AND '2021-12-31';

32. WAQTD THE EMP FNAME, SAL IF THE EMP IS GETTING SALARY MORE THAN 35000 AND LES THAN 50000.

SELECT FNAME, SAL FROM EMP

WHERE SAL>35000 AND SAL<50000;

33. WAQTD THE DETAILS OF EMP EXCEPT WHO ARE GETTING SALARY IN THE RANGE OF 35000 TO 45000.

SELECT \* FROM EMP

WHERE SAL NOT BETWEEN 35000 AND 45000;

34. WAQTD THE DETAILS OF EMP IF THE EMP IS NOT A CUSTOMER IN THE COMPANY.

SELECT \* FROM EMP

WHERE CID IS NULL;

35. WAQTD THE EMP FNAME, COMM IF THE EMP IS GETTING COMM.

SELECT FNAME, COMM FROM EMP

WHERE COMM IS NOT NULL;

36. WAQTD THE DETAILS OF EMP WHO DOESNOT HAVE ANY REPORTING MANAGER.

SELECT \* FROM EMP

WHERE MGR IS NULL;

**IS OPERATOR:**

This operator is used to check whether the given condition is NULL or NOT NULL.

Syntax: column\_name IS NULL/NOT NULL;