**Experiment 5a**

**1) Create table employee with the following structure : (Emp\_id, Ename, Salary, Age, DOJ).**

SQL> CREATE TABLE EMPLOYEE(EMP\_ID NUMBER(2),ENAME VARCHAR2(15),SALARY NUMBER(10),AGE NUMBER(2),DOJ DATE,PRIMARY KEY(EMP\_ID));

Table created.

**2) Insert 5 Records.**

SQL> INSERT INTO EMPLOYEE VALUES(1,'Raj',50000,27,'05-Apr-2012');

1 row created.

SQL> INSERT INTO EMPLOYEE VALUES(2,'Bhaviya',70000,29,'03-Dec-2013');

1 row created.

SQL> INSERT INTO EMPLOYEE VALUES(3,'Saijal',70000,30,'23-Jun-2014');

1 row created.

SQL> INSERT INTO EMPLOYEE VALUES(4,'Ronak',35000,42,'22-Oct-2011');

1 row created.

SQL> INSERT INTO EMPLOYEE VALUES(5,'Anushka',60000,52,'20-Feb-2011');

1 row created.

SQL> select \* from employee;

EMP\_ID ENAME SALARY AGE DOJ

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1 Raj 50000 27 05-APR-12

2 Bhaviya 70000 29 03-DEC-13

3 Saijal 90000 30 23-JUN-14

4 Ronak 35000 42 22-OCT-11

5 Anushka 60000 52 20-FEB-11

**Queries on SQL Operator**

**1)** **Find all employee names that have salary greater than 50000.**

SQL> select \* from employee where salary>50000;

EMP\_ID ENAME SALARY AGE DOJ

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2 Bhaviya 70000 29 03-DEC-13

3 Saijal 90000 30 23-JUN-14

5 Anushka 60000 52 20-FEB-11

**2) Give 10% raise in salary of each employee**

SQL> select ename,(SALARY+0.1\*SALARY) AS NET\_SALARY FROM EMPLOYEE;

ENAME NET\_SALARY

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Raj 55000

Bhaviya 77000

Saijal 99000

Ronak 38500

Anushka 66000

**3) Give the details of employee joined from 05-april-2012 to 23-june-2014.**

SQL> SELECT \* FROM EMPLOYEE WHERE Doj BETWEEN '05-Apr-12' and '23-Jun-14';

EMP\_ID ENAME SALARY AGE DOJ

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1 Raj 50000 27 05-APR-12

2 Bhaviya 70000 29 03-DEC-13

3 Saijal 90000 30 23-JUN-14

**4) Find all employees who are having salary greater than 70000 and have joined after 3 dec 2013.**

SQL> select \* from employee where salary>70000 and DOJ>'3-Dec-2013';

EMP\_ID ENAME SALARY AGE DOJ

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3 Saijal 90000 30 23-JUN-14

**5) Find all employees with name starting with s.**

SQL> select \* from employee where ename like 'S%';

EMP\_ID ENAME SALARY AGE DOJ

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1 Raj 50000 27 05-APR-12

3 Saijal 90000 30 23-JUN-14

**6) Find all employees who have at least one 'e' in their names.**

SQL> select \* from employee where ename like '%e%';

EMP\_ID ENAME SALARY AGE DOJ

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5 Anushka 60000 52 20-FEB-11

**7) Find all employees with age either 29 or 30.**

SQL> select \* from employee where age=29 or age=30;

EMP\_ID ENAME SALARY AGE DOJ

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2 Bhaviya 70000 29 03-DEC-13

3 Saijal 90000 30 23-JUN-14

**8) Find all employees who have not joined on 05-april-2012.**

SQL> select \* from employee where doj<>'05-Apr-2012';

EMP\_ID ENAME SALARY AGE DOJ

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2 Bhaviya 70000 29 03-DEC-13

3 Saijal 90000 30 23-JUN-14

4 Ronak 35000 42 22-OCT-11

5 Anushka 60000 52 20-FEB-11

**9) Alter the table by adding new column as amount deducted from salary towards tax. Update the value tax in the table as 20% of salary.**

SQL> alter table employee add tax number(10);

Table altered.

SQL> update employee set tax=salary\*0.2;

5 rows updated.

SQL> select \* from employee;

EMP\_ID ENAME SALARY AGE DOJ TAX

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1 Raj 50000 27 05-APR-12 10000

2 Bhaviya 70000 29 03-DEC-13 14000

3 Saijal 90000 30 23-JUN-14 18000

4 Ronak 35000 42 22-OCT-11 7000

5 Anushka 60000 52 20-FEB-11 12000

**10) Calculate the net salary of the employee.**

SQL> select ename,(salary + tax) as net\_salary from employee;

ENAME NET\_SALARY

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Raj 60000

Bhaviya 84000

Saijal 108000

Ronak 42000

Anushka 72000

**11) Find all employees whose age is greater than 25 and earns salary.**

SQL> select \* from employee where exists(Select \* from employee where age>25);

EMP\_ID ENAME SALARY AGE DOJ TAX

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1 Raj 50000 27 05-APR-12 10000

2 Bhaviya 70000 29 03-DEC-13 14000

3 Saijal 90000 30 23-JUN-14 18000

4 Ronak 35000 42 22-OCT-11 7000

5 Anushka 60000 52 20-FEB-11 12000

**12) Find all employee names whose age is from the list given ‘25, 30, 24, 29’.**

SQL> select \* from employee where age in(25,30,24,29);

EMP\_ID ENAME SALARY AGE DOJ TAX

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2 Bhaviya 70000 29 03-DEC-13 14000

3 Saijal 90000 30 23-JUN-14 18000

**13) Find all employee names who has not joined on these dates {22-oct-201, 20-feb-2011, 03-dec-2013}**

SQL> select \* from employee where doj not in('22-Oct-2012','20-Feb-2011',' 03-Dec-2013');

EMP\_ID ENAME SALARY AGE DOJ TAX

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1 Raj 50000 27 05-APR-12 10000

3 Saijal 90000 30 23-JUN-14 18000

4 Ronak 35000 42 22-OCT-11 7000

**14) List all employees in descending order of their salary.**

SQL> select \* from employee order by(salary) desc;

EMP\_ID ENAME SALARY AGE DOJ TAX

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3 Saijal 90000 30 23-JUN-14 18000

2 Bhaviya 70000 29 03-DEC-13 14000

5 Anushka 60000 52 20-FEB-11 12000

1 Raj 50000 27 05-APR-12 10000

4 Ronak 35000 42 22-OCT-11 7000

**15) List all employees name in ascending order with joining date ’05-april-2012’ or after this date.**

SQL> select \* from employee where doj>'05-Apr-2012' order by(doj);

EMP\_ID ENAME SALARY AGE DOJ TAX

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2 Bhaviya 70000 29 03-DEC-13 14000

3 Saijal 90000 30 23-JUN-14 18000

**16) List the Employees whose age is not null.**

SQL> select \* from employee where age is not null;

EMP\_ID ENAME SALARY AGE DOJ TAX

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1 Raj 50000 27 05-APR-12 10000

2 Bhaviya 70000 29 03-DEC-13 14000

3 Saijal 90000 30 23-JUN-14 18000

4 Ronak 35000 42 22-OCT-11 7000

5 Anushka 60000 52 20-FEB-11 12000

**17) List the employees whose age is greater than the age of all the employees having salary greater than 5000.x**

SQL> select \* from employee where age>=all(select age from employee where salary>50000);

EMP\_ID ENAME SALARY AGE DOJ TAX

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5 Anushka 60000 52 20-FEB-11 12000