

## EXP 7

### JOIN QUERIES

**AIM:** To execute join queries in SQL.

#### 1)CREATE AN EMPLOYEE TABLE

```
SQL> create table EMP_387
2  (
3  EmpNo number(3),
4  EName varchar2(30),
5  Job varchar2(20),
6  DeptNo number(2),
7  Sal number(5),
8  CustHandling number(2)
9  );

Table created.
```

#### 2)INSERT VALUES IN TABLE

```
SQL> INSERT INTO EMP_387 VALUES (100,'Shushrut Kumar','Manager',01,4000,01);
1 row created.

SQL> INSERT INTO EMP_387 VALUES (101,'Viren Parmar','J.Manager',01,3500,02);
1 row created.

SQL> INSERT INTO EMP_387 VALUES (102,'Vidhi Rai','Analyst',02,5000,03);
1 row created.

SQL> INSERT INTO EMP_387 VALUES (103,'Param Shah','Accountant',02,2500,04);
1 row created.

SQL> INSERT INTO EMP_387 VALUES (104,'Jakin Patel','Assistant',03,2000,04);
1 row created.

SQL> INSERT INTO EMP_387 VALUES (105,'Don Draper','PM',04,1500,05);
1 row created.
```

### 3)CREATE TABLE DEPARTMENT AND INSERT VALUES

```
SQL> create table DEPT_387(DeptNo number(2), DeptName varchar2(25));
Table created.

SQL> INSERT INTO DEPT_387 VALUES (01,'General Management');
1 row created.

SQL> INSERT INTO DEPT_387 VALUES (02,'Marketing');
1 row created.

SQL> INSERT INTO DEPT_387 VALUES (03,'Human Resource');
1 row created.

SQL> INSERT INTO DEPT_387 VALUES (04,'Sales');
1 row created.

SQL> INSERT INTO DEPT_387 VALUES (05,'Operations');
1 row created.
```

### 4)CREATE TABLE LOAN AND INSERT VALUES

```
SQL> create table LOAN_387(Lid number(2), CustId number(2), Amount number(6));
Table created.

SQL> INSERT INTO LOAN_387 VALUES (10,03,50000);
1 row created.

SQL> INSERT INTO LOAN_387 VALUES (20,05,35000);
1 row created.

SQL> INSERT INTO LOAN_387 VALUES (30,06,80000);
1 row created.
```

## 5)CREATE TABLE CUSTOMERS AND INSERT VALUES

```
SQL> create table CUST_387(CustId number(2), CustName varchar2(30));
Table created.

SQL> INSERT INTO CUST_387 VALUES (01,'Michael Scott');
1 row created.

SQL> INSERT INTO CUST_387 VALUES (02,'Jim Duncan');
1 row created.

SQL> INSERT INTO CUST_387 VALUES (03,'Dwight Schrut');
1 row created.

SQL> INSERT INTO CUST_387 VALUES (04,'Pam Besly');
1 row created.

SQL> INSERT INTO CUST_387 VALUES (05,'Kelly Kapoor');
1 row created.

SQL> INSERT INTO CUST_387 VALUES (06,'Ted Mosbey');
1 row created.
```

## 6) Issue a query to display information about employees who earn more than any employee in dept 1.

select \* from EMP\_387 where SAL > (select max(SAL) from EMP\_387 where DeptNo = 01);

```
SQL> select * from EMP_387 where SAL > (select max(SAL) from EMP_387 where DeptNo = 01);
```

EMPNO	ENAME	JOB	DEPTNO
102	Vidhi Rai	Analyst	2
5000			

**7) Display the employee details, departments that the departments are same in both the emp and dept**

```
select * from EMP_387, DEPT_387 where EMP_387.DeptNo = DEPT_387.DeptNo;
```

```
SQL> select * from EMP_387, DEPT_387 where EMP_387.DeptNo = DEPT_387.DeptNo;
```

EMPNO	ENAME	JOB	DEPTNO
100	Shushrut Kumar	Manager	1
101	Viren Parmar	J.Manager	1
102	Vidhi Rai	Analyst	2
103	Param Shah	Accountant	2
104	Jakin Patel	Assistant	3
105	Don Draper	PM	4

6 rows selected.

**8) Display the employee details, departments that the departments are not same in both the emp and dept.**

```
select * from EMP_387, DEPT_387 where EMP_387.DeptNo != DEPT_387.DeptNo;
```

```
SQL> select * from EMP_387, DEPT_387 where EMP_387.DeptNo != DEPT_387.DeptNo;
```

EMPNO	ENAME	JOB	DEPTNO
102	Vidhi Rai	Analyst	2
5000	3	1 General Management	
103	Param Shah	Accountant	2
2500	4	1 General Management	
104	Jakin Patel	Assistant	3
2000	4	1 General Management	

EMPNO	ENAME	JOB	DEPTNO
105	Don Draper	PM	4
1500	5	1 General Management	
100	Shushrut Kumar	Manager	1
4000	1	2 Marketing	
101	Viren Parmar	J.Manager	1
3500	2	2 Marketing	

EMPNO	ENAME	JOB	DEPTNO
104	Jakin Patel	Assistant	3
2000	4	2 Marketing	
105	Don Draper	PM	4
1500	5	2 Marketing	
100	Shushrut Kumar	Manager	1
4000	1	3 Human Resource	

EMPNO	ENAME	JOB	DEPTNO
101	Viren Parmar	J.Manager	1
3500	2	3 Human Resource	
102	Vidhi Rai	Analyst	2
5000	3	3 Human Resource	

**9). Display the details of those who draw the salary greater than the average salary**

select \* from EMP\_387 where SAL > (select avg(SAL) from EMP\_387);

```
SQL> select * from EMP_387 where SAL > (select avg(SAL) from EMP_387);
```

EMPNO	ENAME	JOB	DEPTNO
100	Shushrut Kumar	Manager	1
101	Viren Parmar	J.Manager	1
102	Vidhi Rai	Analyst	2

**10) Display the Employee name by implementing a left outer join.**

select EName from EMP\_387 left outer join DEPT\_387 on EMP\_387.DeptNo = DEPT\_387.DeptNo;

```
SQL> select EName from EMP_387 left outer join DEPT_387 on EMP_387.DeptNo = DEPT_387.DeptNo;
```

EName
Shushrut Kumar
Viren Parmar
Vidhi Rai
Param Shah
Jakin Patel
Don Draper

6 rows selected.

## 11) CREATE TABLE STUD\_387 AND INSERT VALUES

```
SQL> create table STUD_387(RegNo number(2), Name varchar2(30));
Table created.

SQL> INSERT INTO STUD_387 VALUES (01,'Shushrut Kumar');
1 row created.

SQL> INSERT INTO STUD_387 VALUES (02,'Viren Parmar');
1 row created.

SQL> INSERT INTO STUD_387 VALUES (03,'Vidhi Rai');
1 row created.
|
SQL> INSERT INTO STUD_387 VALUES (04,'Param Shah');
1 row created.

SQL> INSERT INTO STUD_387 VALUES (05,'Jakin Patel');
1 row created.

SQL> INSERT INTO STUD_387 VALUES (06,'Don Draper');
1 row created.
```

## 12) CREATE TABLE GRAD\_387 AND INSERT VALUES

## 13) CREATE TABLE RESULT\_387 AND INSERT VALUES

```
SQL> create table GRADE_387(RegNo number(2), grade varchar2(1));
Table created.

SQL> INSERT INTO GRADE_387 VALUES (01,'O');
1 row created.

SQL> INSERT INTO GRADE_387 VALUES (02,'A');
1 row created.

SQL> INSERT INTO GRADE_387 VALUES (03,'B');
1 row created.

SQL> INSERT INTO GRADE_387 VALUES (04,'C');
1 row created.

SQL> INSERT INTO GRADE_387 VALUES (05,'D');
1 row created.

SQL> INSERT INTO GRADE_387 VALUES (06,'E');
1 row created.
```

```
SQL> create table RESULT_387(RegNo number(2), Result varchar2(4));
Table created.

SQL> INSERT INTO RESULT_387 VALUES (01,'PASS');
1 row created.

SQL> INSERT INTO RESULT_387 VALUES (02,'PASS');
1 row created.

SQL> INSERT INTO RESULT_387 VALUES (03,'PASS');
1 row created.

SQL> INSERT INTO RESULT_387 VALUES (04,'PASS');
1 row created.

SQL> INSERT INTO RESULT_387 VALUES (05,'FAIL');
1 row created.

SQL> INSERT INTO RESULT_387 VALUES (06,'FAIL');
1 row created.
```



#### 14) Display the Student Name,register no and result by implementing a right outer join

select STUD\_387.RegNo, Name, Result from STUD\_387 right outer join RESULT\_387 on STUD\_387.RegNo = RESULT\_387.RegNo;

```
SQL> select STUD_387.RegNo, Name, Result from STUD_387 right outer join RESULT_387 on STUD_387.RegNo = RESULT_387.RegNo;
```

REGNO	NAME	RESU
1	Shushrut Kumar	PASS
2	Viren Parmar	PASS
3	Vidhi Rai	PASS
4	Param Shah	PASS
5	Jakin Patel	FAIL
6	Don Draper	FAIL

6 rows selected.

#### 15) Display the Student name by implementing full outer join

select Name from STUD\_387 full outer join GRADE\_387 on STUD\_387.RegNo = GRADE\_387.RegNo;

```
SQL> select Name from STUD_387 full outer join GRADE_387 on STUD_387.RegNo = GRADE_387.RegNo;
```

NAME
Shushrut Kumar
Viren Parmar
Vidhi Rai
Param Shah
Jakin Patel
Don Draper

6 rows selected.

**16) Get all combinations of emp and cust information such that the emp and cust are co-located**

select EmpNo, EName, CustName from EMP\_387, CUST\_387 where  
EMP\_387.CustHandling = CUST\_387.CustId;

```
SQL> select EmpNo, EName, CustName from EMP_387, CUST_387 where EMP_387.CustHandling = CUST_387.CustId;
```

EMPNO	EName	CUSTNAME
100	Shushrut Kumar	Michael Scott
101	Viren Parmar	Jim Duncan
102	Vidhi Rai	Dwight Schrut
103	Param Shah	Pam Besly
104	Jakin Patel	Pam Besly
105	Don Draper	Kelly Kapoor

6 rows selected.

**17) Display the employee number, employee name and department name of the employees who are working for some department**

select EmpNo, EName, DeptName from EMP\_387, DEPT\_387 where  
EMP\_387.DeptNo = DEPT\_387.DeptNo;

```
SQL> select EmpNo, EName, DeptName from EMP_387, DEPT_387 where EMP_387.DeptNo = DEPT_387.DeptNo;
```

EMPNO	EName	DEPTNAME
100	Shushrut Kumar	General Management
101	Viren Parmar	General Management
102	Vidhi Rai	Marketing
103	Param Shah	Marketing
104	Jakin Patel	Human Resource
105	Don Draper	Sales

6 rows selected.

**18)Display the first and last name of customer who have taken loan**

select CustName, Lid, Amount from CUST\_387, LOAN\_387 where  
CUST\_387.CustId = LOAN\_387.CustId;

```
SQL> select CustName, Lid, Amount from CUST_387, LOAN_387 where CUST_387.CustId = LOAN_387.CustId;
```

CUSTNAME	LID	AMOUNT
Dwight Schrut	10	50000
Kelly Kapoor	20	35000
Ted Mosbey	30	80000

**RESULT: Join queries in SQL are successfully implemented and executed**

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