

DBMS WORK

```
CREATE TABLE PERSON(NAME VARCHAR(26),ID NUMBER(25),PHONENUMBER NUMBER(28));
```

```
ALTER TABLE PERSON ADD PRIMARY KEY(ID);
```

Column Name	Data Type	Nullable	Default	Primary Key
ID	NUMBER(25,0)	No	-	1
NAME	VARCHAR2(26)	Yes	-	-
PHONENUMBER	NUMBER(25,0)	Yes	-	-

```
CREATE TABLE ORDER2(ORDERID NUMBER(23),PERSONID NUMBER(25),PRICE NUMBER(24));
```

```
ALTER TABLE ORDER2 ADD PRIMARY KEY (ORDERID);
```

Column Name	Data Type	Nullable	Default	Primary Key
ORDERID	NUMBER(23,0)	No	-	1
PERSONID	NUMBER(25,0)	Yes	-	-
ITEM	VARCHAR2(23)	Yes	-	-
PRICE	NUMBER(24,0)	Yes	-	-

```
ALTER TABLE ORDER2 ADD FOREIGN KEY(PERSONID) REFERENCES PERSON(PERSONID);
```

NEW ONE 31-07-24

```
1 CREATE TABLE EMPLOYEES1(EMPLOYEE_NAME VARCHAR(23),EMPLOYEE_ID NUMBER(25),DEPARTMENT VARCHAR(24));
2 INSERT INTO EMPLOYEES1 VALUES('SRIKANTH',455689,'CSE');
3 INSERT INTO EMPLOYEES1 VALUES('SRIDHAR',465433,'AI');
4 INSERT INTO EMPLOYEES1 VALUES('UDAY',2898975,'AIDS');
5 INSERT INTO EMPLOYEES1 VALUES('SRIPATHI',2565649,'AIML');
6 SELECT * FROM EMPLOYEES1;
```

```

1 SELECT EMPLOYEE_NAME, CASE EMPLOYEE_ID
2 WHEN 455689 THEN 'CSE'
3 WHEN 465433 THEN 'AI'
4 WHEN 2892875 THEN 'AIDS'
5 ELSE 'OTHER DEPT.'
6 END AS "DEPARTMENT"
7 FROM EMPLOYEES1;

```

SELECT EMPLOYEE_NAME, CASE EMPLOYEE_ID WHEN 455689 THEN 'CSE' WHEN 465433 THEN 'AI' WHEN 2892875 THEN 'AIDS' ELSE 'OTHER DEPT.' END AS "DEPARTMENT" FROM EMPLOYEES1	
EMPLOYEE_NAME	DEPARTMENT
SRIKANTH	CSE
SRIDHAR	AI
UDAY	OTHER DEPT.
SRIPATHI	OTHER DEPT.

```

1 SELECT EMPLOYEE_NAME, DECODE(EMPLOYEE_ID,
2 455689, 'CSE',
3 465433, 'AI',
4 2892875, 'AIDS',
5 'OTHER DEPT.')
6 AS "DEPARTMENT"
7 FROM EMPLOYEES1;

```





SELECT EMPLOYEE_NAME, DECODE(EMPLOYEE_ID, 455689, 'CSE', 465433, 'AI', 2892875, 'AIDS', 'OTHER DEPT.') AS "DEPARTMENT" FROM EMPLOYEES1	
EMPLOYEE_NAME	DEPARTMENT
SRIKANTH	CSE
SRIDHAR	AI
UDAY	OTHER DEPT.
SRIPATHI	OTHER DEPT.

TO ADD VALUES IN GIVEN COLUMN

```

UPDATE EMPLOYEES1 SET SALARY=6000 WHERE EMPLOYEE_ID=2565649;

```

EDIT	EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT	SALARY
	SRIKANTH	455689	CSE	10000
	SRIDHAR	465433	AI	25000
	UDAY	2898975	AIDS	5000
	SRIPATHI	2565649	AIML	6000

```
SELECT *FROM EMPLOYEES1 WHERE SALARY >2000;
```

SELECT *FROM EMPLOYEES1 WHERE SALARY >2000			
EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT	SALARY
SRIKANTH	455689	CSE	10000
SRIDHAR	465433	AI	25000
UDAY	2898975	AIDS	5000
SRIPATHI	2565649	AIML	6000

```
SELECT *FROM EMPLOYEES1 WHERE SALARY <20000;
```

SELECT *FROM EMPLOYEES1 WHERE SALARY <20000			
EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT	SALARY
SRIKANTH	455689	CSE	10000
UDAY	2898975	AIDS	5000
SRIPATHI	2565649	AIML	6000

3 rows selected. 0.00 seconds

```
SELECT * FROM EMPLOYEES1 WHERE SALARY>2000 AND DEPARTMENT ='AIDS';
```

SELECT * FROM EMPLOYEES1 WHERE SALARY>2000 AND DEPARTMENT ='AIDS'			
EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT	SALARY
UDAY	2898975	AIDS	5000

1 row selected. 0.00 seconds

```
SELECT * FROM EMPLOYEES1 WHERE DEPARTMENT='CSE'OR SALARY >9000;
```

SELECT * FROM EMPLOYEES1 WHERE DEPARTMENT='CSE'OR SALARY >9000			
EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT	SALARY
SRIKANTH	455689	CSE	10000
SRIDHAR	465433	AI	25000

2 rows selected. 0.01 seconds

```
SELECT * FROM EMPLOYEES1 WHERE NOT DEPARTMENT='CSE';
```

SELECT * FROM EMPLOYEES1 WHERE NOT DEPARTMENT='CSE'			
EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT	SALARY
SRIDHAR	465433	AI	25000
UDAY	2898975	AIDS	5000
SRIPATHI	2565649	AIML	6000

3 rows selected. 0.01 seconds

CREATE ANOTHER TABLE

```

1 CREATE TABLE DEPARTMENT2(DEPARTMENT VARCHAR(23),DEPARTMENT_ID NUMBER(23))
2 INSERT INTO DEPARTMENT2 VALUES('CSE',95);
3 INSERT INTO DEPARTMENT2 VALUES('AI',96);
4 INSERT INTO DEPARTMENT2 VALUES('AIDS',100);
5 INSERT INTO DEPARTMENT2 VALUES('AIML',105);
6 SELECT * FROM DEPARTMENT2;
7

```

	DEPARTMENT	DEPARTMENT_ID
	CSE	95
	AI	96
	AIDS	100
	AIML	105

TO JOIN THE TWO TABLES

-----NATURAL JOIN-----

```

SELECT EMPLOYEE_NAME,DEPARTMENT,DEPARTMENT_ID FROM EMPLOYEES1 NATURAL JOIN DEPARTMENT2 WHERE DEPARTMENT_ID>93;

```

SELECT EMPLOYEE_NAME,DEPARTMENT,DEPARTMENT_ID FROM EMPLOYEES1 NATURAL JOIN DEPARTMENT2 WHERE DEPARTMENT_ID>93

EMPLOYEE_NAME	DEPARTMENT	DEPARTMENT_ID
SRIKANTH	CSE	95
SRIDHAR	AI	96
UDAY	AIDS	100
SRIPATHI	AIML	105

4 rows selected. 0.01 seconds

-----CROSS JOIN-----

```

SELECT EMPLOYEE_NAME,EMPLOYEE_ID FROM EMPLOYEES1 CROSS JOIN DEPARTMENT2;

```

```
SELECT EMPLOYEE_NAME,EMPLOYEE_ID FROM EMPLOYEES1 CROSS JOIN DEPARTMENT2
```

EMPLOYEE_NAME	EMPLOYEE_ID
SRIKANTH	455689
SRIKANTH	455689
SRIKANTH	455689
SRIKANTH	455689
SRIDHAR	465433
SRIDHAR	465433
SRIDHAR	465433
SRIDHAR	465433
UDAY	2898975
UDAY	2898975
UDAY	2898975
UDAY	2898975
SRIPATHI	2565649
SRIPATHI	2565649
SRIPATHI	2565649
SRIPATHI	2565649

-----JOIN USING-----

```
SELECT EMPLOYEE_NAME,EMPLOYEE_ID,DEPARTMENT FROM EMPLOYEES1 JOIN DEPARTMENT2 USING(DEPARTMENT) WHERE EMPLOYEE_ID=455689;
```

```
SELECT EMPLOYEE_NAME,EMPLOYEE_ID,DEPARTMENT FROM EMPLOYEES1 JOIN DEPARTMENT2 USING(DEPARTMENT) WHERE EMPLOYEE_ID=455689
```

EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT
SRIKANTH	455689	CSE

Statement processed. 0.01 seconds

WITHOUT USING WHERE

```
SELECT EMPLOYEE_NAME,EMPLOYEE_ID,DEPARTMENT FROM EMPLOYEES1 JOIN DEPARTMENT2 USING(DEPARTMENT) ;
```

```
SELECT EMPLOYEE_NAME,EMPLOYEE_ID,DEPARTMENT FROM EMPLOYEES1 JOIN DEPARTMENT2 USING(DEPARTMENT)
```

EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT
SRIKANTH	455689	CSE
SRIDHAR	465433	AI
UDAY	2898975	AIDS
SRIPATHI	2565649	AIML

4 rows selected. 0.01 seconds

-----ON CLAUSE-----

```
SELECT EMPLOYEE_NAME,SALARY FROM EMPLOYEES1 E1 JOIN DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT);
```

```
SELECT EMPLOYEE_NAME,SALARY FROM EMPLOYEES1 E1 JOIN DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT)
```

EMPLOYEE_NAME	SALARY
SRIKANTH	10000
SRIDHAR	25000
UDAY	5000
SRIPATHI	6000

4 rows selected. 0.01 seconds

-----ON CLAUSE WITH WHERE CLAUSE-----

```
SELECT EMPLOYEE_NAME,SALARY FROM EMPLOYEES1 E1 JOIN DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT) WHERE EMPLOYEE_NAME LIKE 'S%';
```

```
SELECT EMPLOYEE_NAME,SALARY FROM EMPLOYEES1 E1 JOIN DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT) WHERE EMPLOYEE_NAME LIKE 'S%'
```

EMPLOYEE_NAME	SALARY
SRIKANTH	10000
SRIDHAR	25000
SRIPATHI	6000

3 rows selected. 0.00 seconds

-----2.8.24-----class-----LEFT JOINING-----

```
SELECT E1.EMPLOYEE_NAME,E1.EMPLOYEE_ID,E1.SALARY,D2.DEPARTMENT FROM EMPLOYEES1 E1 LEFT OUTER JOIN DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT);
```

```
SELECT E1.EMPLOYEE_NAME,E1.EMPLOYEE_ID,E1.SALARY,D2.DEPARTMENT FROM EMPLOYEES1 E1 LEFT OUTER JOIN DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT)
```

EMPLOYEE_NAME	EMPLOYEE_ID	SALARY	DEPARTMENT
SRIKANTH	455689	10000	CSE
SRIDHAR	465433	25000	AI
UDAY	2898975	5000	AIDS
SRIPATHI	2565649	6000	AIML

4 rows selected. 0.00 seconds

-----RIGHT JOINING-----

```
SELECT E1.EMPLOYEE_NAME,E1.EMPLOYEE_ID,E1.SALARY,D2.DEPARTMENT
FROM EMPLOYEES1 E1 RIGHT OUTER JOIN
DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT);
```

```
SELECT E1.EMPLOYEE_NAME,E1.EMPLOYEE_ID,E1.SALARY,D2.DEPARTMENT FROM EMPLOYEES1 E1 RIGHT OUTER JOIN DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT)
```

EMPLOYEE_NAME	EMPLOYEE_ID	SALARY	DEPARTMENT
SRIKANTH	455689	10000	CSE
SRIDHAR	465433	25000	AI
UDAY	2898975	5000	AIDS
SRIPATHI	2565649	6000	AIML

4 rows selected. 0.00 seconds

-----FULL OUTER JOIN-----

```
SELECT E1.EMPLOYEE_NAME,E1.EMPLOYEE_ID,E1.SALARY,D2.DEPARTMENT
FROM EMPLOYEES1 E1 FULL OUTER JOIN
DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT);
```

```
SELECT E1.EMPLOYEE_NAME,E1.EMPLOYEE_ID,E1.SALARY,D2.DEPARTMENT FROM EMPLOYEES1 E1 FULL OUTER JOIN DEPARTMENT2 D2 ON (E1.DEPARTMENT=D2.DEPARTMENT)
```

EMPLOYEE_NAME	EMPLOYEE_ID	SALARY	DEPARTMENT
SRIKANTH	455689	10000	CSE
SRIDHAR	465433	25000	AI
UDAY	2898975	5000	AIDS
SRIPATHI	2565649	6000	AIML

-----SELF JOIN-----

```
SELECT WORKER.EMPLOYEE_NAME || 'WORKS FOR ' ||MANAGER.DEPARTMENT
AS "WORKS FOR" FROM EMPLOYEES1 WORKER
JOIN EMPLOYEES1 MANAGER ON (WORKER.DEPARTMENT=MANAGER.DEPARTMENT);
```

```
SELECT WORKER.EMPLOYEE_NAME || 'WORKS FOR ' || MANAGER.DEPARTMENT AS "WORKS FOR" FROM EMPLOYEES1 WORKER JOIN EMPLOYEES1 MANAGER ON (WORKER.DEPARTMENT=MANAGER.DEPARTMENT)
```

WORKS FOR
SRIKANTHWORKS FOR CSE
SRIDHARWORKS FOR AI
UDAYWORKS FOR AIDS
SRIPATHIWORKS FOR AIML

-----SAME TABLE-----

```
SELECT WORKER.EMPLOYEE_NAME || 'WORKS FOR ' || MANAGER.EMPLOYEE_NAME AS "WORKS FOR" FROM EMPLOYEES1 WORKER JOIN EMPLOYEES1 MANAGER ON (WORKER.EMPLOYEE_NAME=MANAGER.EMPLOYEE_NAME);
```

```
SELECT WORKER.EMPLOYEE_NAME || 'WORKS FOR ' || MANAGER.EMPLOYEE_NAME AS "WORKS FOR" FROM EMPLOYEES1 WORKER JOIN EMPLOYEES1 MANAGER ON (WORKER.EMPLOYEE_NAME=MANAGER.EMPLOYEE_NAME)
```

WORKS FOR
SRIKANTHWORKS FOR SRIKANTH
SRIDHARWORKS FOR SRIDHAR
UDAYWORKS FOR UDAY
SRIPATHIWORKS FOR SRIPATHI

SELF JOIN EXAMPLE-----

```
SELECT WORKER.EMPLOYEE_NAME, WORKER.EMPLOYEE_ID, MANAGER.DEPARTMENT AS DEPARTMENT FROM EMPLOYEES1 WORKER JOIN EMPLOYEES1 MANAGER ON (WORKER.EMPLOYEE_NAME=MANAGER.EMPLOYEE_NAME);
```

```
SELECT WORKER.EMPLOYEE_NAME, WORKER.EMPLOYEE_ID, MANAGER.DEPARTMENT AS DEPARTMENT FROM EMPLOYEES1 WORKER JOIN EMPLOYEES1 MANAGER ON (WORKER.EMPLOYEE_NAME=MANAGER.EMPLOYEE_NAME)
```

EMPLOYEE_NAME	EMPLOYEE_ID	DEPARTMENT
SRIKANTH	455689	CSE
SRIDHAR	465433	AI
UDAY	2898975	AIDS
SRIPATHI	2565649	AIML