

# **Database Management Systems**

**18CSC303J**

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CSE\_SWE L2

## **Exp 6 - Joining Tables**

**Aim:** To study the various Join operations on the database.

Enter user-name: RA1911033010021/RA1911033010021@3.232.175.251:1521/ORCL

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

SQL> spool on

SQL> spool week6.lst

SQL> CREATE TABLE orders(O\_id number(5), Orderno number(5), P\_Id number(3));

CREATE TABLE orders(O\_id number(5), Orderno number(5), P\_Id number(3))

\*

ERROR at line 1:

ORA-00955: name is already used by an existing object

SQL> CREATE TABLE orderss(O\_id number(5), Orderno number(5), P\_Id number(3));

Table created.

SQL> desc orderss;

Name	Null?	Type
O_ID		NUMBER(5)
ORDERNO		NUMBER(5)
P_ID		NUMBER(3)

SQL> INSERT INTO orderss VALUES(&O\_id, &Orderno, &P\_Id);

Enter value for o\_id: 1

Enter value for orderno: 12345

Enter value for p\_id: 3

old 1: INSERT INTO orderss VALUES(&O\_id, &Orderno, &P\_Id)

new 1: INSERT INTO orderss VALUES(1, 12345, 3)

1 row created.

SQL> INSERT INTO orderss VALUES(&O\_id, &Orderno, &P\_Id);

Enter value for o\_id: 2

Enter value for orderno: 65478

Enter value for p\_id: 3

old 1: INSERT INTO orderss VALUES(&O\_id, &Orderno, &P\_Id)

new 1: INSERT INTO orderss VALUES(2, 65478, 3)

1 row created.

```
SQL> INSERT INTO orderss VALUES(&O_id, &Orderno, &P_Id);
Enter value for o_id: 3
Enter value for orderno: 98745
Enter value for p_id: 1
old 1: INSERT INTO orderss VALUES(&O_id, &Orderno, &P_Id)
new 1: INSERT INTO orderss VALUES(3, 98745, 1)
```

1 row created.

```
SQL> INSERT INTO orderss VALUES(&O_id, &Orderno, &P_Id);
Enter value for o_id: 4
Enter value for orderno: 49765
Enter value for p_id: 1
old 1: INSERT INTO orderss VALUES(&O_id, &Orderno, &P_Id)
new 1: INSERT INTO orderss VALUES(4, 49765, 1)
```

1 row created.

```
SQL> INSERT INTO orderss VALUES(&O_id, &Orderno, &P_Id);
Enter value for o_id: 5
Enter value for orderno: 87564
Enter value for p_id: 15
old 1: INSERT INTO orderss VALUES(&O_id, &Orderno, &P_Id)
new 1: INSERT INTO orderss VALUES(5, 87564, 15)
```

1 row created.

```
SQL> SELECT * FROM orderss;
```

O_ID	ORDERNO	P_ID
1	12345	3
2	65478	3
3	98745	1
4	49765	1
5	87564	15

```
SQL> CREATE TABLE personss(p_id number(5), LASTNAME varchar2(10), Firstname varchar2(15), Addresz varchar2(20), city varchar2(10));
```

Table created.

```
SQL> desc personss;
```

Name	Null?	Type
P_ID		NUMBER(5)
LASTNAME		VARCHAR2(10)
FIRSTNAME		VARCHAR2(15)
ADDRESZ		VARCHAR2(20)
CITY		VARCHAR2(10)

```

SQL> INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addresz', '&city');
Enter value for p_id: 1
Enter value for lastname: nomula
Enter value for firstname: sairam
Enter value for addresz: gandhichowk
Enter value for city: kmm
old 1: INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addresz', '&city')
new 1: INSERT INTO personss VALUES(1,'nomula', 'sairam', 'gandhichowk', 'kmm')

1 row created.

SQL> INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addresz', '&city');
Enter value for p_id: 2
Enter value for lastname: bommerla
Enter value for firstname: abhighyan
Enter value for addresz: ramnagar
Enter value for city: hyd
old 1: INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addresz', '&city')
new 1: INSERT INTO personss VALUES(2,'bommerla', 'abhighyan', 'ramnagar', 'hyd')

1 row created.

SQL> INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addresz', '&city');
Enter value for p_id: 3
Enter value for lastname: rangathan
Enter value for firstname: roehit
Enter value for addresz: pallavaram
Enter value for city: chennai
old 1: INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addresz', '&city')
new 1: INSERT INTO personss VALUES(3,'ranganathan', 'roehit', 'pallavaram', 'chennai')
INSERT INTO personss VALUES(3,'ranganathan', 'roehit', 'pallavaram', 'chennai')
*
ERROR at line 1:
ORA-12899: value too large for column "RA1911033010021"."PERSONSS"."LASTNAME"
(actual: 11, maximum: 10)

SQL> INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addresz', '&city');
Enter value for p_id: 4
Enter value for lastname: reddy
Enter value for firstname: dush
Enter value for addresz: billa
Enter value for city: bilaspur
old 1: INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addresz', '&city')
new 1: INSERT INTO personss VALUES(4,'reddy', 'dush', 'billa', 'bilaspur')

1 row created.

```

```
SQL> INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addressz', '&city');
Enter value for p_id: 5
Enter value for lastname: lan
Enter value for firstname: mike
Enter value for addressz: hins
Enter value for city: usa
old 1: INSERT INTO personss VALUES(&p_id,&LASTNAME', '&Firstname', '&Addressz', '&city')
new 1: INSERT INTO personss VALUES(5,'lan', 'mike', 'hins', 'usa')
```

1 row created.

```
SQL> SELECT * FROM personss;
```

P_ID	LASTNAME	FIRSTNAME	ADDRESSZ	CITY
1	nomula	sairam	gandhichowk	kmm
2	bommerla	abhighyan	ramnagar	hyd
4	reddy	dush	billa	bilaspur
5	lan	mike	hins	usa

```
SQL> SELECT personss.LASTNAME,personss.Firstname,orderss.Orderno From personss LEFT JOIN orderss ON personss.p_id = orderss.p_id ORDER BY personss.LASTNAME;
```

LASTNAME	FIRSTNAME	ORDERNO
bommerla	abhighyan	
lan	mike	
nomula	sairam	49765
nomula	sairam	98745
reddy	dush	

```
SQL> SELECT * FROM orderss;
```

O_ID	ORDERNO	P_ID
1	12345	3
2	65478	3
3	98745	1
4	49765	1
5	87564	15

```
SQL> SELECT * FROM personss;
```

P_ID	LASTNAME	FIRSTNAME	ADDRESSZ	CITY
1	nomula	sairam	gandhichowk	kmm
2	bommerla	abhighyan	ramnagar	hyd
4	reddy	dush	billa	bilaspur
5	lan	mike	hins	usa

```
SQL> SELECT personss.LASTNAME, personss.Firstname, orderss.Orderno FROM personss FULL OUTER JOIN orderss ON personss.p_id = orderss.p_id ORDER BY personss.LASTNAME;
```

LASTNAME	FIRSTNAME	ORDERNO
bommerla	abhighyan	
lan	mike	
nomula	sairam	98745
nomula	sairam	49765
reddy	dush	
		87564
		12345
		65478

8 rows selected.

```
SQL> SELECT personss.LASTNAME, personss.Firstname, orderss.Orderno FROM personss RIGHT OUTER JOIN orderss ON personss.p_id = orderss.p_id ORDER BY personss.LASTNAME;
```

LASTNAME	FIRSTNAME	ORDERNO
nomula	sairam	49765
nomula	sairam	98745
		12345
		65478
		87564

```
SQL> SELECT personss.LASTNAME, personss.Firstname, orderss.Orderno FROM personss INNER JOIN orderss ON personss.p_id = orderss.p_id ORDER BY personss.LASTNAME;
```

LASTNAME	FIRSTNAME	ORDERNO
nomula	sairam	49765
nomula	sairam	98745

```
SQL> select * from personss;
```

P_ID	LASTNAME	FIRSTNAME	ADDRESSZ	CITY
1	nomula	sairam	gandhichowk	kmm
2	bommerla	abhighyan	ramnagar	hyd
4	reddy	dush	billa	bilaspur
5	lan	mike	hins	usa

```
SQL> select * from orderss;
```

O_ID	ORDERNO	P_ID
1	12345	3
2	65478	3
3	98745	1
4	49765	1
5	87564	15