

**Reference link**

**https://www.geeksforgeeks.org/sql-join-set-1-inner-left-right-and-full-joins/**

SQL> create table fac(fid number(10),fname varchar(10),address varchar(10),age number(10));

Table created.

SQL> create table fcou(cid number(10),fid number(10));

Table created.

SQL> insert into fac values(&fid,'&fname','&address',&age);

Enter value for fid: 1

Enter value for fname: aaa

Enter value for address: chennai

Enter value for age: 30

old 1: insert into fac values(&fid,'&fname','&address',&age)

new 1: insert into fac values(1,'aaa','chennai',30)

1 row created.

SQL> /

Enter value for fid: 2

Enter value for fname: bbb

Enter value for address: chennai

Enter value for age: 33

old 1: insert into fac values(&fid,'&fname','&address',&age)

new 1: insert into fac values(2,'bbb','chennai',33)

1 row created.

SQL> /

Enter value for fid: 3

Enter value for fname: ccc

Enter value for address: bangalore

Enter value for age: 34

old 1: insert into fac values(&fid,'&fname','&address',&age)

new 1: insert into fac values(3,'ccc','bangalore',34)

1 row created.

SQL> /

Enter value for fid: 4

Enter value for fname: ddd

Enter value for address: kochin

Enter value for age: 30

old 1: insert into fac values(&fid,'&fname','&address',&age)

new 1: insert into fac values(4,'ddd','kochin',30)

1 row created.

SQL> /

Enter value for fid: 5

Enter value for fname: eee

Enter value for address: hyderabad

Enter value for age: 30

old 1: insert into fac values(&fid,'&fname','&address',&age)

new 1: insert into fac values(5,'eee','hyderabad',30)

1 row created.

SQL> /

Enter value for fid: 6

Enter value for fname: fff

Enter value for address: hyderabad

Enter value for age: 29

old 1: insert into fac values(&fid,'&fname','&address',&age)

new 1: insert into fac values(6,'fff','hyderabad',29)

1 row created.

SQL> /

Enter value for fid: 7

Enter value for fname: ggg

Enter value for address: chennai

Enter value for age: 33

old 1: insert into fac values(&fid,'&fname','&address',&age)

new 1: insert into fac values(7,'ggg','chennai',33)

1 row created.

SQL> select \* from fac;

FID FNAME ADDRESS AGE

---------- ---------- ---------- ----------

1 aaa chennai 30

2 bbb chennai 33

3 ccc bangalore 34

4 ddd kochin 30

5 eee hyderabad 30

6 fff hyderabad 29

7 ggg chennai 33

7 rows selected.

SQL> insert into fcou values(10,1);

1 row created.

SQL> insert into fcou values(10,2);

1 row created.

SQL> insert into fcou values(20,3);

1 row created.

SQL> insert into fcou values(30,4);

1 row created.

SQL> insert into fcou values(20,5);

1 row created.

SQL> insert into fcou values(20,6);

1 row created.

SQL> select \* from fcou;

CID FID

---------- ----------

10 1

10 2

20 3

30 4

20 5

20 6

6 rows selected.

SQL> select \* from fac;

FID FNAME ADDRESS AGE

---------- ---------- ---------- ----------

1 aaa chennai 30

2 bbb chennai 33

3 ccc bangalore 34

4 ddd kochin 30

5 eee hyderabad 30

6 fff hyderabad 29

7 ggg chennai 33

7 rows selected.

SQL> select fcou.cid,fac.fname,fac.age from fac inner join fcou on fac.fid=fcou.fid;

CID FNAME AGE

---------- ---------- ----------

10 aaa 30

10 bbb 33

20 ccc 34

30 ddd 30

20 eee 30

20 fff 29

6 rows selected.

SQL> select fac.fname,fcou.cid from fac left join fcou on fcou.fid=fac.fid;

FNAME CID

---------- ----------

aaa 10

bbb 10

ccc 20

ddd 30

eee 20

fff 20

ggg

7 rows selected.

SQL> select fac.fid,fcou.cid from fac left join fcou on fcou.fid=fac.fid;

FID CID

---------- ----------

1 10

2 10

3 20

4 30

5 20

6 20

7

7 rows selected.

SQL> select fac.fid,fcou.cid from fac right join fcou on fcou.fid=fac.fid;

FID CID

---------- ----------

1 10

2 10

3 20

4 30

5 20

6 20

6 rows selected.

SQL> insert into fcou values(40,7);

1 row created.

SQL> insert into fcou values(40,8);

1 row created.

SQL> select fac.fid,fcou.cid from fac right join fcou on fcou.fid=fac.fid;

FID CID

---------- ----------

1 10

2 10

3 20

4 30

5 20

6 20

7 40

40

8 rows selected.

SQL> select fac.fid,fcou.cid from fac full join fcou on fcou.fid=fac.fid;

FID CID

---------- ----------

1 10

2 10

3 20

4 30

5 20

6 20

7 40

40

8 rows selected.

SQL> select fcou.fid,fcou.cid from fac full join fcou on fcou.fid=fac.fid;

FID CID

---------- ----------

1 10

2 10

3 20

4 30

5 20

6 20

7 40

8 40

8 rows selected.

SQL> select fac.fid,fcou.fid from fac full join fcou on fcou.fid=fac.fid;

FID FID

---------- ----------

1 1

2 2

3 3

4 4

5 5

6 6

7 7

8

8 rows selected.

|  |  |
| --- | --- |
| JOIN | UNION |
| JOIN combines data from many tables based on a matched condition between them. | SQL combines the result-set of two or more SELECT statements. |
| It combines data into new columns. | It combines data into new rows |
| Number of columns selected from each table may not be same. | Number of columns selected from each table should be same. |
| Datatypes of corresponding columns selected from each table can be different. | Datatypes of corresponding columns selected from each table should be same. |
| It may not return distinct columns. | It returns distinct rows. |

**QUERY PROCESSING**

REFERENCE LINK

https://www.javatpoint.com/query-processing-in-dbms