

Experiment 7: Joins

1) RIGHT JOIN

```
select name,product
from purchase
right join customer
on customer_id=c_id;
```

OUTPUT:

NAME	PRODUCT
Rittika	1
Niyati	2
Parth	3
Shruti	4
Tanishqa	5
Yash	6
Soweda	7
Mohib	8
Kaushik	9
Ujjwal	10
Simran	-
Trishala	-
Jagjeet	-
Mehak	-
Uditi	-
Vivek	-
Hamza	-
Ananya	-
Om	-
Ishika	-

2) LEFT JOIN

```
select name,artist_id,band_name
from artist
left join band
on artist_id=aa_id;
```

OUTPUT:

NAME	ARTIST_ID	BAND_NAME
Shanaya	8	AC/DC
Prerna	9	AC/DC
Harsh	16	AC/DC
Zayn	11	Green Day
Arjit	12	Green Day
Sheldon	13	Green Day
Rianna	2	Pink Floyd
Sanjana	7	Pink Floyd
Rittika	3	Queen
Yash	4	Queen
Sunidhi	14	Queen
Shanaya	8	Red Hot Chili Peppers
Taylor Swift	18	Red Hot Chili Peppers
Rohan	1	The Beatles
Sam	10	The Beatles
Howard	15	The Beatles
Simran	5	The Rolling Stones
Shruti	6	The Rolling Stones
Rihanna	23	-
Pritam	21	-
Ed Sheeran	17	-
Beyonce	20	-
Billie Eilish	22	-

Ariana Grande	19	-
Madonna	25	-
Selena Gomez	24	-

3)Full Join

```
select name,artist_id,band_name
from artist
full join band
on artist_id=aa_id;
```

OUTPUT:

NAME	ARTIST_ID	BAND_NAME
Rohan	1	The Beatles
Rianna	2	Pink Floyd
Rittika	3	Queen
Yash	4	Queen
Simran	5	The Rolling Stones
Shruti	6	The Rolling Stones
Sanjana	7	Pink Floyd
Shanaya	8	AC/DC
Prerna	9	AC/DC
Sam	10	The Beatles
Beyonce	20	-
Pritam	21	-
Billie Eilish	22	-
Rihanna	23	-
Selena Gomez	24	-
Madonna	25	-
Harsh	16	AC/DC
Ed Sheeran	17	-
Taylor Swift	18	Red Hot Chili Peppers
Ariana Grande	19	-

Zayn	11	Green Day
Arjit	12	Green Day
Sheldon	13	Green Day
Sunidhi	14	Queen
Howard	15	The Beatles

4)Equi Join

```
select title,song_title,playtime
from song,album
where (album_id=5 and a_id=5) or (album_id=6 and a_id=6);
```

OUTPUT:

TITLE	SONG_TITLE	PLAYTIME
Euphoria	Smells Like Spirit	200
Euphoria	Like a Rolling Stone	220
Euphoria	Smells Like Spirit	225
Euphoria	My Girl	210
Euphoria	Sweet Dreams	225
Drive	My Heart Will Go On	175
Drive	I Want You	195
Drive	I Want Your Hand	190
Drive	Falling in Love	215
Drive	Living in America	190
Drive	Walking on Sunshine	220

5)Inner Join

```
select name,product
from purchase
inner join customer
on customer_id=c_id;
```

OUTPUT:

NAME	PRODUCT
Rittika	1
Niyati	2
Parth	3
Shruti	4
Tanishqa	5
Yash	6
Soweda	7
Mohib	8
Kaushik	9
Ujjwal	10

6) Self Join

select a.title,b.price

from album a,album b

where a.price < b.price;

OUTPUT:

TITLE	PRICE
October	70
October	80
October	85
October	95
October	100
October	130
October	145
October	170
October	200
Queen	80
Queen	85
Queen	95

Queen	100
Queen	130
Queen	145
Queen	170
Queen	200
Cold Mess	85
Cold Mess	95
Cold Mess	100
Cold Mess	130
Cold Mess	145
Cold Mess	170
Cold Mess	200
Believe	95
Believe	100
Believe	130
Believe	145
Believe	170
Believe	200
Attention	100
Attention	130
Attention	145
Attention	170
Attention	200
Rockstar	130
Rockstar	145
Rockstar	170
Rockstar	200
Midnights	145
Midnights	170
Midnights	200
Kedarnath	170

Kedarnath	200
Euphoria	200

7) Cross Join

```
select title,c_id,purchase  
from album,purchase;
```

OUTPUT:

TITLE	C_ID	PURCHASE
Rockstar	1	01-Apr-87
Rockstar	2	02-Apr-87
Rockstar	3	03-Apr-87
Rockstar	4	04-Apr-87
Rockstar	5	05-Apr-87
Rockstar	6	06-Apr-87
Rockstar	7	07-Apr-87
Rockstar	8	08-Apr-87
Rockstar	9	09-Apr-87
Rockstar	10	10-Apr-87
Queen	1	01-Apr-87
Queen	2	02-Apr-87
Queen	3	03-Apr-87
Queen	4	04-Apr-87
Queen	5	05-Apr-87
Queen	6	06-Apr-87
Queen	7	07-Apr-87
Queen	8	08-Apr-87
Queen	9	09-Apr-87
Queen	10	10-Apr-87
Cold Mess	1	01-Apr-87
Cold Mess	2	02-Apr-87

Cold Mess	3	03-Apr-87
Cold Mess	4	04-Apr-87
Cold Mess	5	05-Apr-87
Cold Mess	6	06-Apr-87
Cold Mess	7	07-Apr-87
Cold Mess	8	08-Apr-87
Cold Mess	9	09-Apr-87
Cold Mess	10	10-Apr-87
Attention	1	01-Apr-87
Attention	2	02-Apr-87
Attention	3	03-Apr-87
Attention	4	04-Apr-87
Attention	5	05-Apr-87
Attention	6	06-Apr-87
Attention	7	07-Apr-87
Attention	8	08-Apr-87
Attention	9	09-Apr-87
Attention	10	10-Apr-87
Euphoria	1	01-Apr-87
Euphoria	2	02-Apr-87
Euphoria	3	03-Apr-87
Euphoria	4	04-Apr-87
Euphoria	5	05-Apr-87
Euphoria	6	06-Apr-87
Euphoria	7	07-Apr-87
Euphoria	8	08-Apr-87
Euphoria	9	09-Apr-87
Euphoria	10	10-Apr-87