

# SQL Task 7

First we create a database name as myntra\_db.

```
create database myntra_db ;  
use myntra_db ;
```

Now we will create table name as brands.

```
Create table brands (  
brand_id int primary key,  
name varchar(50)  
);
```

Now we will insert some values in above table.

	brand_id	name
	1	Nike
	2	Adidas
	3	Puma
	4	Roadster
	5	H&M
	6	Levi's
	7	U.S. Polo
	8	Zara

Now we will create a table name as products.

```
Create table products(  
product_id int primary key,  
name varchar(50),  
brand_id int,  
description varchar(200),  
foreign key (brand_id) references brands(brand_id)  
);
```

Now we will insert some values in table.

product_id	name	brand_id	description
3	Trendy Shoes 3	3	High-quality Shoes for everyday wear.
4	Elegant Jackets 4	5	High-quality Jackets for everyday wear.
5	Trendy Jackets 5	5	High-quality Dresses for everyday wear.
6	Elegant T-Shirts 6	3	High-quality Jackets for everyday wear.
7	Stylish Shoes 7	6	High-quality Shirts for everyday wear.
8	Elegant Shoes 8	6	High-quality Shirts for everyday wear.
9	Cool Jackets 9	8	High-quality Dresses for everyday wear.
10	Cool T-Shirts 10	8	High-quality Dresses for everyday wear.
11	Stylish Shirts 11	3	High-quality T-Shirts for everyday wear.
12	Trendy T-Shirts 12	2	High-quality Jeans for everyday wear.
13	Elegant Shirts 13	4	High-quality Dresses for everyday wear.
14	Cool Jeans 14	7	High-quality Shirts for everyday wear.
15	Cool Jeans 15	8	High-quality Shoes for everyday wear.
16	Classic T-Shirts 16	1	High-quality Shoes for everyday wear.
17	Elegant Dresses... 17	2	High-quality Shoes for everyday wear.
18	Classic Jeans 18	5	High-quality Shirts for everyday wear.
19	Elegant Jackets 19	1	High-quality Shirts for everyday wear.
20	Elegant Shirts 20	1	High-quality Shoes for everyday wear.
21	Classic Dresses... 21	4	High-quality T-Shirts for everyday wear.
22	Stylish Dresses 22	5	High-quality Shoes for everyday wear.
23	Elegant Dresses... 23	6	High-quality Shoes for everyday wear.
24	Cool Shirts 24	1	High-quality Dresses for everyday wear.
25	Stylish Jeans 25	1	High-quality Shoes for everyday wear.
26	Trendy Shirts 26	1	High-quality Jeans for everyday wear.
27	Elegant T-Shirts... 27	3	High-quality Shirts for everyday wear.

Now we will create another table name as variants.

```
Create table variants (  
  variant_id int primary key,  
  product_id int,  
  size varchar(13),  
  colour varchar(50),  
  stock int,  
  foreign key(product_id) references products(product_id)  
);
```

Now we will insert some values in variants.

variant_id	product_id	size	colour	stock
3	1	L	Red	65
4	1	S	Black	38
5	2	S	Green	93
6	2	L	Black	16
7	3	M	Black	170
8	4	XL	Black	56
9	4	S	Yellow	182
10	4	L	Yellow	120
11	5	XL	Red	140
12	5	S	White	56
13	5	L	Yellow	22
14	5	S	Red	93
15	6	S	White	160
16	7	XL	Red	129
17	7	M	Green	36
18	8	XL	Blue	123
19	8	S	Blue	20
20	8	L	Red	168
21	8	S	Yellow	43
22	9	M	Green	112
23	9	M	White	120
24	9	L	Green	104
25	9	XL	Blue	191
26	10	M	Yellow	54
27	11	S	White	167

Now we will create another table name as prices.

```
Create table prices(  
product_id int,  
mrp int,  
discount_percent int,  
final_price int,  
foreign key (product_id) references products(product_id)  
);
```

We will insert some values in prices.

	product_...	mrp	discount_perc...	final_price
3		4682	20	3745
4		4893	0	4893
5		4620	20	3696
6		4321	0	4321
7		2490	10	2241
8		4971	20	3976
9		3634	10	3270
10		1268	30	887
11		4113	0	4113
12		3488	40	2092
13		2209	20	1767
14		1778	50	889
15		869	40	521
16		3394	30	2375
17		1960	20	1568
18		3786	50	1893
19		686	0	686
20		1109	40	665
21		920	30	644
22		2502	0	2502
23		4499	50	2249
24		2879	10	2591
25		1902	30	1331
26		596	20	476
27		3086	50	1543

Now we will create table name as ratings.

```
Create table ratings(  
product_id int,  
avg_rating float,  
review_count int,  
foreign key (product_id) references products(product_id)  
);
```

Now we will insert some values in ratings

	product_...	avg_rating	review_count
	1	4.9	1531
	2	1.5	972
	3	1.6	1651
	4	2.7	1397
	5	4.7	1534
	6	2.7	957
	7	3.2	787
	8	1.9	133
	9	4	707
	10	3.6	1867
	11	2.9	435
	12	4.4	1215
	13	1.9	227
	14	2.4	609
	15	2.6	1285
	16	4.8	412
	17	2.3	299
	18	1.8	1732
	19	2.6	1939
	20	4.5	1986
	21	2.3	1115
	22	2.7	1169
	23	3.2	142
	24	3.8	1129
	25	1.5	607

Now we create some views with the help of above tables.

### View 1

```
CREATE VIEW view1 AS
SELECT
    products.name, ratings.avg_rating
FROM
    products
JOIN
    ratings ON products.product_id = ratings.product_id;
```

Result :

	name	avg_rating
	Trendy Jeans 1	4.9
	Trendy Dresses 2	1.5
	Trendy Shoes 3	1.6
	Elegant Jackets 4	2.7
	Trendy Jackets 5	4.7
	Elegant T-Shirts 6	2.7
	Stylish Shoes 7	3.2
	Elegant Shoes 8	1.9
	Cool Jackets 9	4
	Cool T-Shirts 10	3.6
	Stylish Shirts 11	2.9
	Trendy T-Shirts 12	4.4
	Elegant Shirts 13	1.9
	Cool Jeans 14	2.4
	Cool Jeans 15	2.6
	Classic T-Shirts 16	4.8
	Elegant Dresses...	2.3
	Classic Jeans 18	1.8
	Elegant Jackets 19	2.6
	Elegant Shirts 20	4.5
	Classic Dresses...	2.3
	Stylish Dresses 22	2.7
	Elegant Dresses...	3.2
	Cool Shirts 24	3.8
	Stylish Jeans 25	1.5

Now we will create another view name as view2.

```
CREATE VIEW view2 AS
SELECT
    brands.name AS brand_name, variants.size, variants.color
FROM
    variants
    JOIN
    products ON variants.product_id = products.product_id
    JOIN
    brands ON products.brand_id = brands.brand_id;
```

Result :

	name	size	colour
	Nike	S	Green
	Nike	L	Yellow
	Nike	L	Black
	Nike	S	Black
	Nike	XL	Green
	Nike	XL	Black
	Nike	M	Blue
	Nike	XL	Green
	Nike	S	Black
	Nike	M	Green
	Nike	L	Blue
	Nike	M	Red
	Nike	M	White
	Nike	S	Yellow
	Nike	M	Black
	Nike	S	Red
	Nike	XL	Red
	Nike	M	Blue
	Nike	M	Red
	Nike	M	Yellow
	Nike	XL	White
	Nike	S	Red
	Nike	XL	Red
	Nike	XL	Red
	Nike	L	Blue

Now we create another view name as view3.

```
CREATE VIEW view3 AS
SELECT
    prices.mrp,
    SUM(prices.final_price) AS total_final_price,
    products.name
FROM
    prices
    JOIN
    products ON products.product_id = prices.product_id
GROUP BY products.name , prices.mrp;
```

Result :

mrp	total_final_pri...	name
792	554	Trendy Jeans 1
1878	939	Trendy Dresses 2
4682	3745	Trendy Shoes 3
4893	4893	Elegant Jackets 4
4620	3696	Trendy Jackets 5
4321	4321	Elegant T-Shirts 6
2490	2241	Stylish Shoes 7
4971	3976	Elegant Shoes 8
3634	3270	Cool Jackets 9
1268	887	Cool T-Shirts 10
4113	4113	Stylish Shirts 11
3488	2092	Trendy T-Shirts 12
2209	1767	Elegant Shirts 13
1778	889	Cool Jeans 14
869	521	Cool Jeans 15
3394	2375	Classic T-Shirts 16
1960	1568	Elegant Dresses...
3786	1893	Classic Jeans 18
686	686	Elegant Jackets 19
1109	665	Elegant Shirts 20
920	644	Classic Dresses...
2502	2502	Stylish Dresses 22
4499	2249	Elegant Dresses...
2879	2591	Cool Shirts 24
1902	1331	Stylish Jeans 25

Now we will create another view name as view4.

```
Create view view4 as
Select brands.name , ratings.avg_rating from brands
join products
on products.brand_id = brands.brand_id
join ratings
on products.product_id = ratings.product_id ;
```

Result :

name	avg_rating
Nike	4.5
Nike	3.8
Nike	1.5
Nike	3.8
Nike	3.8
Nike	4.9
Nike	2.9
Nike	4.6
Nike	4.9
Nike	2.2
Nike	3.6
Nike	1.9
Nike	4.7
Nike	4.4
Nike	3.5
Nike	1.7
Nike	3.4
Nike	3.2
Nike	4.1
Nike	3.4
Nike	3.3
Nike	3.9
Nike	4.1
Nike	3.3
Nike	2.1

## EER Diagram :

