

## TASK 1 : UNDERSTANDING THE DATA

1):- We have the data of superstore we have all the details of the customers

And their purchases etc.

We have the tables in it like cust\_dimen,market\_fact,orders\_dimen,prod\_dimen, Shipping dimen.

We have to analyse the data and have to solve the Business Question for it and Give the meaningful information to the client or manager.

2):- TABLE NAME	PRIMARY KEYS	FORIEN KEY
Cust_dimen	cust_id	None
Prod_dimen	prod_id	None
Orders_dimen	ord_id	order_id
Shipping_dimen	ship_id	order_id
Market_fact	None	ord_id,prod_id,ship_id and cust_id

## TASK 2: BASIC & ADVANCE ANALYSIS

1] SELECT

```
customer_name as "Customer Name",  
customer_segment as "Customer Segment"  
FROM superstore_db.cust_dimen
```

2] SELECT \*

```
FROM superstore_db.cust_dimen  
order by cust_id desc
```

3] SELECT order\_id,

order\_date

```
FROM superstore_db.Orders_dimen
```

```
WHERE order_priority = "HIGH";
```

4] SELECT

```
sum(sales) as "total_sales",
```

```
avg(sales) as "average_sales"
```

```
FROM superstore_db.market_fact
```

5] SELECT

```
max(sales),
```

```
min(sales)
```

```
FROM superstore_db.market_fact
```

6] SELECT distinct  
region "Region",  
count(cust\_id)"No. of customers"  
FROM Superstore\_db.cust\_dimen  
group by region;

7] select distinct region "Region",  
count(cust\_id)"Max No. of customers"  
FROM Superstore\_db.cust\_dimen  
group by region  
order by count(Cust\_id) desc  
limit 1;

8] select customer\_name,count(superstore\_db.market\_fact.prod\_id)  
"No\_of\_tables\_purchased"  
from Superstore\_db.cust\_dimen  
inner join superstore\_db.market\_fact on  
Superstore\_db.cust\_dimen.Cust\_id=superstore\_db.market\_fact.Cust\_id  
where Prod\_id = "Prod\_11" and Region = "ATLANTIC"  
group by Customer\_Name;

9] SELECT distinct customer\_name,count(customer\_segment)  
from superstore\_db.cust\_dimen  
where province = "ONTARIO" and customer\_segment = "SMALL BUSINESS"  
group by customer\_name;

10] SELECT distinct prod\_id,count(prod\_id) FROM Superstore\_db.market\_fact  
group by prod\_id  
order by count(prod\_id) desc;

11] SELECT Prod\_id,Product\_Sub\_Category  
FROM Superstore\_db.prod\_dimen  
where Product\_Category = "FURNITURE" or Product\_Category = "TECHNOLOGY";

12] SELECT distinct product\_category,sum(market\_fact.Profit)"profits"  
from Superstore\_db.prod\_dimen  
inner join Superstore\_db.market\_fact on Superstore\_db.market\_fact.Prod\_id =  
Superstore\_db.prod\_dimen.prod\_id  
group by product\_category  
order by sum(profit) desc;

13] SELECT  
Product\_Sub\_Category,Product\_Category,sum(market\_fact.Profit)"profits"  
FROM Superstore\_db.prod\_dimen  
inner join Superstore\_db.market\_fact on Superstore\_db.market\_fact.Prod\_id =  
Superstore\_db.prod\_dimen.prod\_id  
group by Product\_Sub\_Category,Product\_Category

14] **SELECT** market\_fact.ord\_id,order\_date,sales,Order\_Quantity  
from Superstore\_db.market\_fact  
inner join Superstore\_db.orders\_dimen on Superstore\_db.orders\_dimen.Ord\_id =  
Superstore\_db.market\_fact.Ord\_id;

15 i] **SELECT** Customer\_Name  
FROM Superstore\_db.cust\_dimen  
where Customer\_Name like '\_R%';  
ii] **SELECT** Customer\_Name  
FROM Superstore\_db.cust\_dimen  
where Customer\_Name like '\_\_\_D%';

16] **SELECT** cust\_dimen.Cust\_id,  
Customer\_Name,  
Region,sales  
FROM Superstore\_db.cust\_dimen  
inner join Superstore\_db.market\_fact on Superstore\_db.market\_fact.Cust\_id =  
Superstore\_db.cust\_dimen.Cust\_id  
where sales between 1000 and 5000;

17] **SELECT** sales FROM Superstore\_db.market\_fact  
order by sales desc  
limit 1 OFFSET 2;

18] The first task is to find the least profitable subcategory shipped more.  
The least subcategory is TABLES  
QUERY :-  
**SELECT** prod\_dimen.product\_sub\_category, sum(profit) from  
Superstore\_db.market\_fact  
join Superstore\_db.prod\_dimen on Superstore\_db.market\_fact.Prod\_id =  
Superstore\_db.prod\_dimen.Prod\_id  
group by Product\_Sub\_Category  
order by sum(profit)  
limit 1

Where it shipped most is ONTARIO

Details for the subcategory

QUERY:-  
**SELECT** cust\_dimen.Region "Region" ,count(market\_fact.ship\_id)  
"No\_of\_shipments", sum(market\_fact.profit) "Profit\_in\_each\_region"  
from Superstores.market\_fact  
join Superstores.cust\_dimen on Superstores.cust\_dimen.cust\_id =  
Superstores.market\_fact.Cust\_id

```
join Superstores.prod_dimen on Superstores.prod_dimen.prod_id =  
Superstores.market_fact.Prod_id  
where market_fact.Prod_id = "Prod_11"  
group by region  
order by sum(profit) desc
```