

# Project on analysis of Market schema by SQL

**PROJECT FILE LINK:-**[market star shema full db](#)

1. Need the full details of shipment so select Order ID, Ship ID, Shipping\_Cost, Ship\_date from the database.

**Solution:-**

```
select * from market_star_schema.shipping_dimen
```

2. Provide the customer name, city, state and the order ID and order quantity they ordered.

**Solution:-**

```
select cust_dimen.customer_Name, cust_dimen.City,  
cust_dimen.State, market_fact_full.Ord_id,  
market_fact_full.Order_Quantity  
from cust_dimen INNER JOIN  
market_fact_full ON cust_dimen.cust_id = market_fact_full.cust_id;
```

3. Provide the product details like order Id, shipment ID whose shipment mode is Regular air.

**Solution:-**

```
select shipping_dimen.Order_ID, shipping_dimen.Ship_Mode  
from shipping_dimen where Ship_Mode = "regular air";
```

4. Provide all the details of customers which are from West Bengal.

**Solution:-**

```
select * from cust_dimen where State = "West Bengal";
```

5. Provide the order details like odr\_id, prod\_id, ship\_id, cust\_id whose discount is more than 0.05 and order\_quantity is more than 10.

**Solution:-**

```
select prod_id, ship_id, cust_id from market_fact_full
```

where Discount > 0.05 and Order\_Quantity > 10;

6. Create a table shipping\_mode\_dimen having columns with their respective data types as the following:-

- (i) Ship\_Mode VARCHAR(25)
- (ii) Vehicle\_Company VARCHAR(25)
- (iii) Toll\_Required BOOLEAN

**Solution:-**

```
CREATE TABLE `shipping_mode_dimen` (  
  `Ship_Mode` varchar(25) DEFAULT NULL,  
  `Vehicle_Company` varchar(25) DEFAULT NULL,  
  `Toll_Required` Boolean  
);
```

7. Make 'Ship\_Mode' as the primary key in the above table.

**Solution:-**

```
CREATE TABLE `shipping_mode_dimen` (  
  `Ship_Mode` varchar(25) NOT NULL,  
  `Vehicle_Company` varchar(25) DEFAULT NULL,  
  `Toll_Required` Boolean,  
  PRIMARY KEY (`Ship_Mode`)  
);
```

8. Add another column named 'Vehicle\_Number' and its data type to the created table.

**Solution:-**

```
alter table shipping_mode_dimen  
ADD Vehicle_Number varchar(20);
```

9. Update its value to 'MH-05-R1234'.

**Solution:-**

```
update shipping_mode_dimen  
set vehicle_Number = 'MH-05-R1234';
```

10. Print the names of all customers who are either corporate or belong to Mumbai.

**Solution:-**

```
select * from cust_dimen where City= 'Mumbai' or  
Customer_Segment='CORPORATE';
```

11. Find the total number of sales made.

**Solution:-**

```
select count(Sales) from market_fact_full;
```

12. List the customer names in alphabetical order.

**Solution:-**

```
select Customer_Name from cust_dimen order by  
Customer_Name ASC;
```

13. Print the three most ordered products.

**Solution:-**

```
Select Prod_id, count(Order_Quantity) from market_fact_full  
group by  
Prod_id order by count(Order_Quantity) desc limit 3;
```

14. Which month and year combination saw the most number of critical orders?

**Solution:-**

```
select * from orders_dimen where Order_Priority = 'CRITICAL'  
order by Order_Number desc limit 1;
```

15. Find the most commonly used mode of shipment in 2011.

**Solution:-**

```
select Ship_Mode, count(Order_ID) from shipping_dimen WHERE  
YEAR(Ship_Date)='2011'  
group by Ship_Mode order by count(Ship_Mode) desc limit 1;
```

16. Find all low-priority orders made in the month of April. Out of them, how many were made in the first half of the month?

**Solution:-**

```
select * from orders_dimen where Order_Priority= 'LOW' and  
MONTH(Order_Date)= '04';
```

```
select * from orders_dimen where Order_Priority= 'LOW' and  
MONTH(Order_Date)= '04' and DAY(Order_Date) <= '15';
```

17. Rank the orders made by Aaron Smayling in the decreasing order of the resulting sales.

**Solution:-**

```
select market_fact_full.Sales, cust_dimen.Customer_Name from  
market_fact_full inner join  
cust_dimen on Customer_Name= 'Aaron Smayling'  
order by market_fact_full.Sales desc;
```

18. For the above customer, rank the orders in the increasing order of the discounts provided. Also display the dense ranks.

**Solution:-**

```
select cust_dimen.Customer_Name, market_fact_full.Discount,  
DENSE_RANK() OVER (ORDER BY market_fact_full.Discount  
asc) AS DenseRank  
from market_fact_full inner join  
cust_dimen on Customer_Name= 'Aaron Smayling';
```

19. Rank the orders in the increasing order of the shipping costs for all orders placed by Aaron Smayling. Also display the row number for each order.

**Solution:-**

```
select cust_dimen.Customer_Name,  
market_fact_full.Shipping_Cost,  
    ROW_NUMBER() OVER (ORDER BY  
market_fact_full.Shipping_Cost asc) AS RowNumber  
from market_fact_full inner join  
cust_dimen on Customer_Name= 'Aaron Smayling';
```