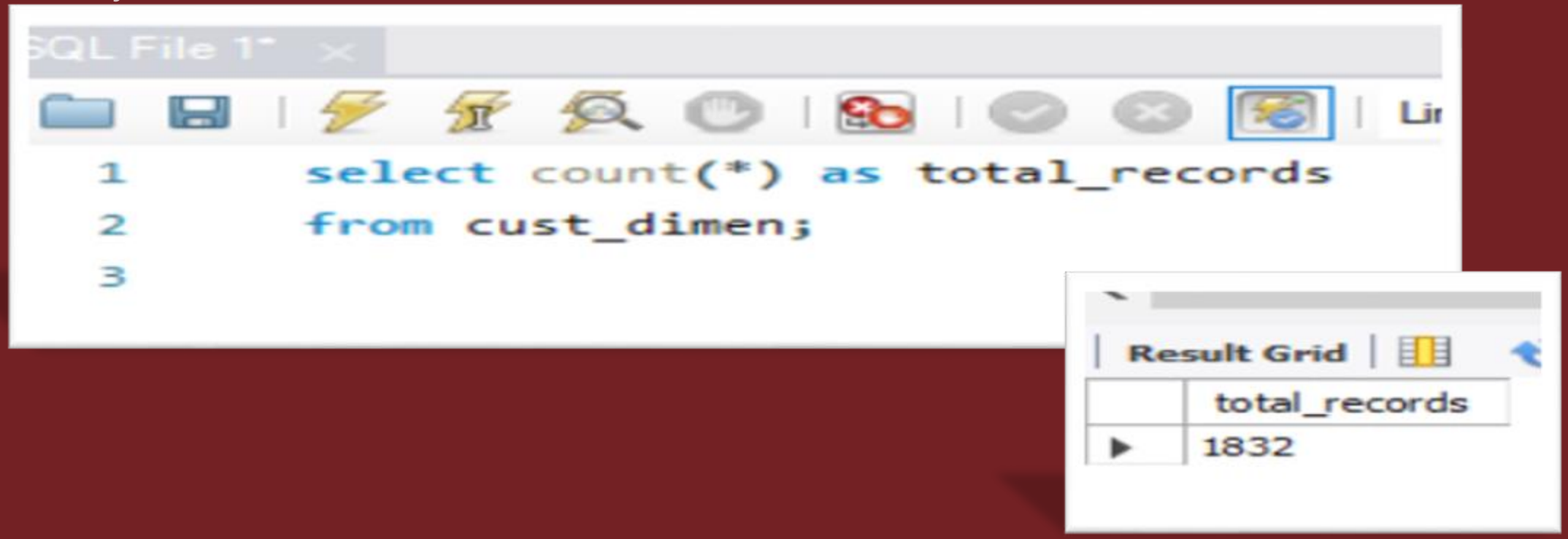
SQL DATA ANALYSIS PROJECT

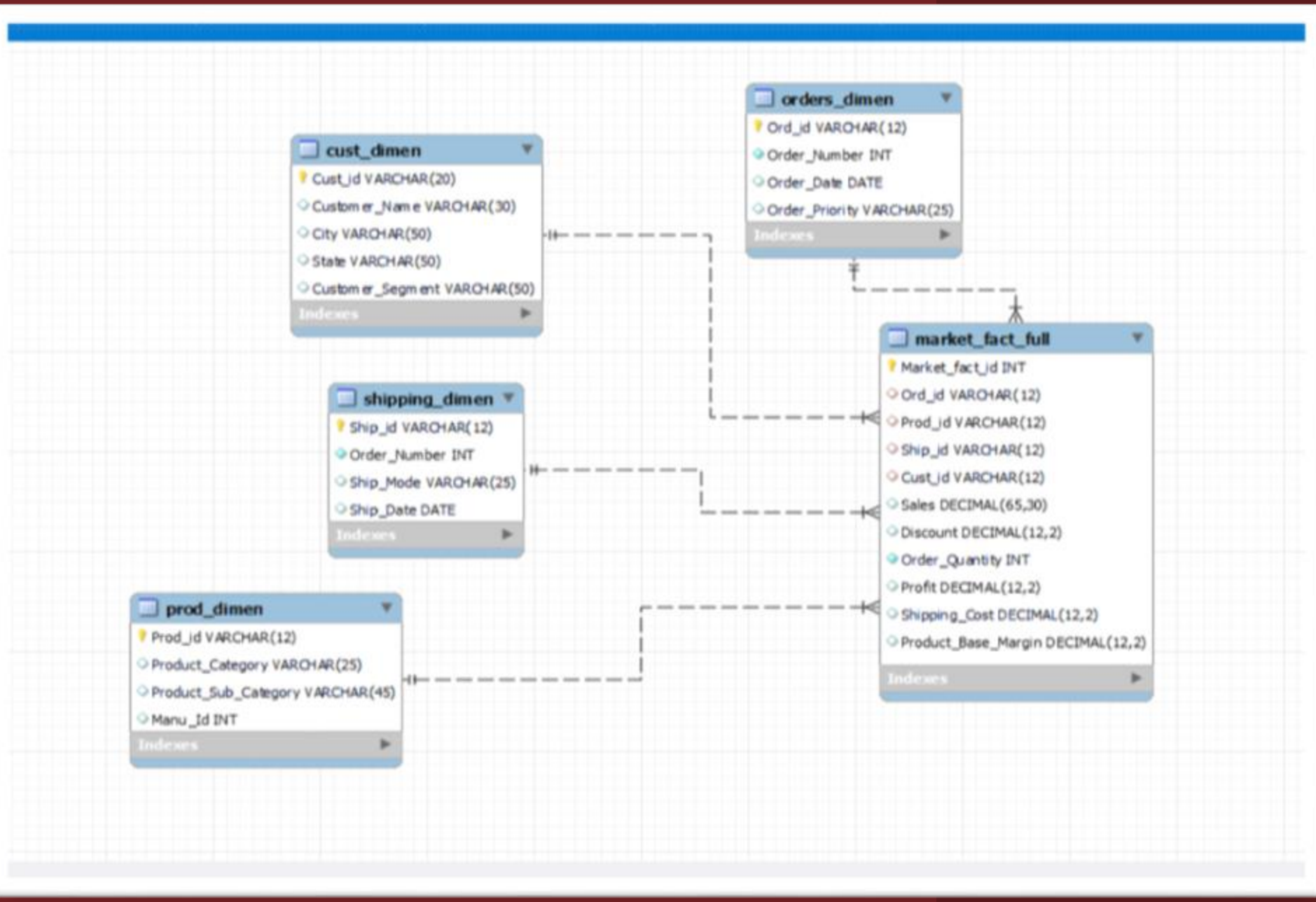
- BY TANISHA

TOTAL RECORDS

Find the total number of customers in the database

Query




cust_dimen
Cust_id VARCHAR(20)
Customer_Name VARCHAR(30)
City VARCHAR(50)
State VARCHAR(50)
Customer_Segment VARCHAR(50)
Indexes
orders_dimen
Ord_id VARCHAR(12)
Order_Number INT
Order_Date DATE
Order_Priority VARCHAR(25)
Indexes
market_fact_full
Market_fact_id INT
Ord_id VARCHAR(12)
Prod_id VARCHAR(12)
Ship_id VARCHAR(12)
Cust_id VARCHAR(12)
Sales DECIMAL(65,30)
Discount DECIMAL(12,2)
Order_Quantity INT
Profit DECIMAL(12,2)
Shipping_Cost DECIMAL(12,2)
Product_Base_Margin DECIMAL(12,2)
Indexes
shipping_dimen
Ship_id VARCHAR(12)
Order_Number INT
Ship_Mode VARCHAR(25)
Ship_Date DATE
Indexes
prod_dimen
Prod_id VARCHAR(12)
Product_Category VARCHAR(25)
Product_Sub_Category VARCHAR(45)
Manu_Id INT
Indexes

ERD

TOP 5 STATES BY CUSTOMER VOLUME

Find the top 5 States with the highest number of customers

Query

```
1  select count(*) as customer_count, State
2  from cust_dimen
3  group by State
4  order by customer_count desc
5  limit 5;
```

Result Grid | Filter Rows:

customer_count	State
480	Karnataka
425	Tamil Nadu
302	Kerala
286	Maharashtra
187	Delhi

AVERAGE SHIPPING COST BY SHIPPING MODE

Find the average shipping cost by shipping mode

Query

```
1  select s.Ship_id, s.Ship_Mode, round(avg(m.Shipping_Cost), 4) as avg_ship_cost
2  from shipping_dimen as s
3  join market_fact_full as m
4  on s.Ship_id = m.Ship_id
5  group by s.Ship_id
6  order by avg_ship_cost
7  limit 5;
```

Result Grid | Filter Rows:

Ship_id	Ship_Mode	avg_ship_cost
SHP_41	REGULAR AIR	0.5000
SHP_7549	EXPRESS AIR	0.9300
SHP_6615	REGULAR AIR	0.9900
SHP_7610	EXPRESS AIR	2.5000
SHP_6593	REGULAR AIR	2.7667

PEAK MONTH FOR ORDER VOLUME

Find the month with the highest number of orders

Query

SQL File 1*

Limit to 1000 rows

```
1  select extract(month from o.Order_Date) as order_month, count(o.Ord_id) as total_order
2  from orders_dimen as o
3  group by order_month
4  order by total_order desc
5  limit 1;
6
```

Result Grid | Filter Rows:

order_month	total_order
7	505

TOP PRODUCT CATEGORY BY ORDER QUANTITY

Find the top-selling products based on order quantity

Query

SQL File 1*

Limit to 1000 rows

```
1  select p.Product_Category, sum(m.Order_Quantity) as total_order_quantity
2  from prod_dimen as p
3  join market_fact_full as m
4  on  p.Prod_id = m.Prod_id
5  group by p.Product_Category
6  order by total_order_quantity desc
7  limit 1;
```

Result Grid | Filter Rows: | Export:

Product_Category	total_order_quantity
OFFICE SUPPLIES	256

TOP SHIPPING MODES BY TOTAL SALES

Find the shipping modes with the highest total sales

Query

```
select s.Ship_Mode, round(sum(m.Sales),4) as total_sales
from shipping_dimen s
join market_fact_full  as m
on s.Ship_id = m.Ship_id
group by  s.Ship_Mode
order by total_sales desc;
```

Result Grid | Filter Rows:

Ship_Mode	total_sales
DELIVERY TRUCK	9008.3280
REGULAR AIR	8623.9075
EXPRESS AIR	7245.8700

TOP 2 CUSTOMERS BY TOTAL REVENUE

Find the top 2 customers based on revenue generated

Query

SQL File 1*

Limit to 1000 rows

```
1  select c.Customer_Name,c.Cust_id, round(sum(m.Sales),4) as total_reven
2  from cust_dimen as  c
3  join market_fact_full as m
4  on c.cust_id = m.cust_id
5  group by  c.Customer_Name, c.Cust_id
6  order by  total_revenue desc
7  limit 2;
```

Result Grid | Filter Rows:

Customer_Name	Cust_id	total_revenue
AARON BERGMAN	Cust_1818	11615.8300
AARON HAWKINS	Cust_1641	7701.3875