# Task 3: SQL for Data Analysis

#### **Kodumuri Venkat Rohith**

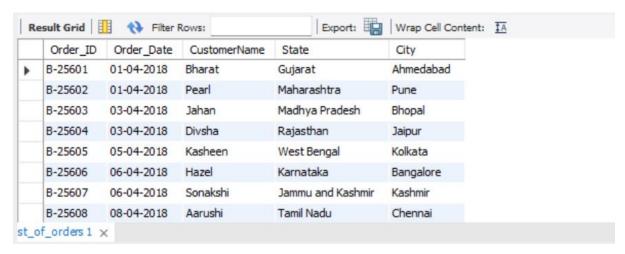
#### Kodumurivenkat.rohith@gmail.com

#### Create Database ecommerce;

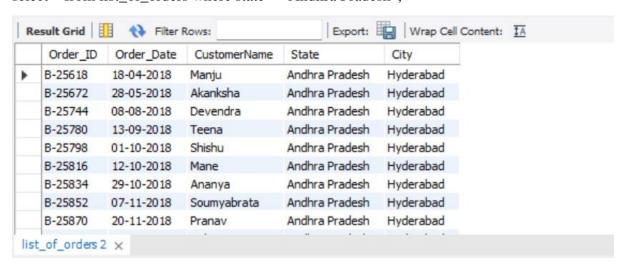
#### use ecommerce;



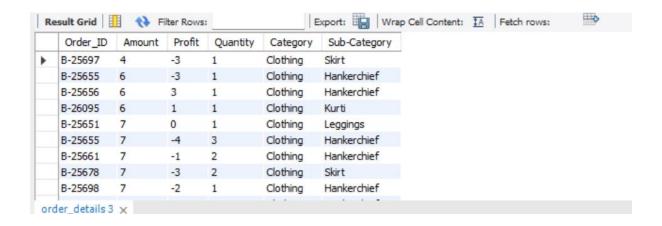
## select \* from list\_of\_orders;



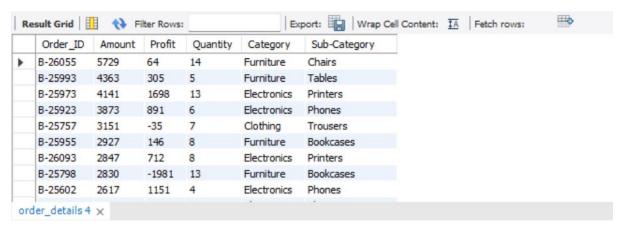
select \* from list\_of\_orders where state = "Andhra Pradesh";



select \* from order\_details order by Amount;



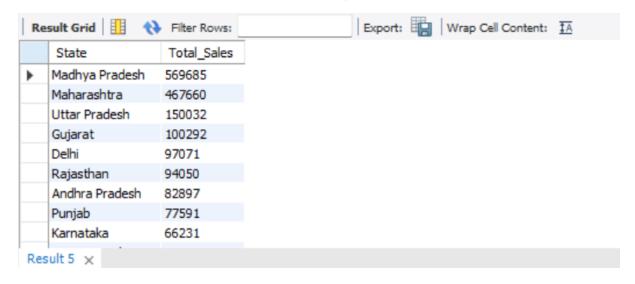
select \* from order\_details order by Amount desc;



SELECT State, SUM(Amount \* Quantity) AS Total\_Sales FROM list\_of\_orders

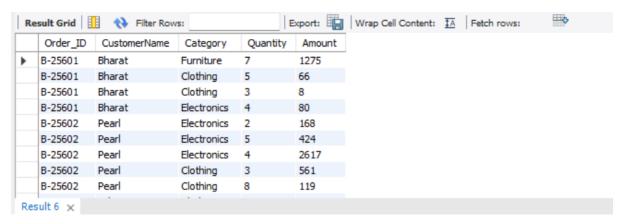
JOIN order\_details ON list\_of\_orders.Order\_ID = order\_details.Order\_ID

GROUP BY State ORDER BY Total Sales DESC;



# SELECT lo.Order\_ID, lo.CustomerName, od.Category, od.Quantity, od.Amount FROM list\_of\_orders lo

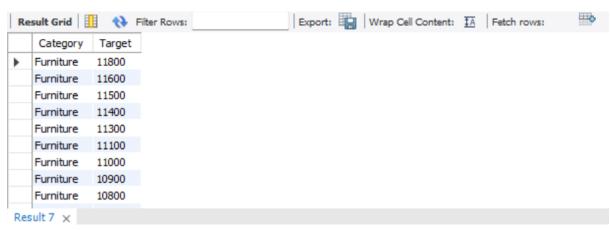
INNER JOIN order\_details od ON lo.Order\_ID = od.Order\_ID;



#### SELECT od.Category, st.Target

FROM order\_details od

LEFT JOIN sale\_target st ON od.Category = st.Category;



#### SELECT CustomerName, Total\_Amount

#### FROM (

SELECT lo.CustomerName, SUM(od.Amount \* od.Quantity) AS Total\_Amount

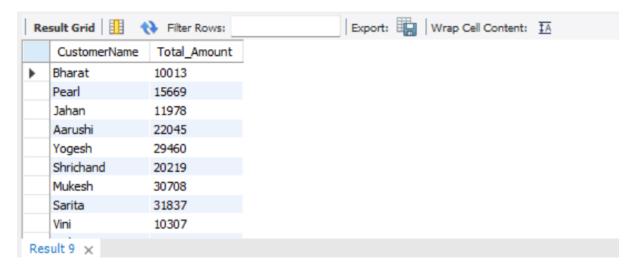
FROM list\_of\_orders lo

JOIN order\_details od ON lo.Order\_ID = od.Order\_ID

GROUP BY lo.CustomerName

) AS customer\_sales

#### WHERE Total\_Amount > 10000;



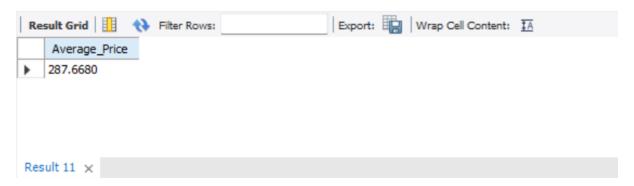
# SELECT SUM(Amount \* Quantity) AS Total\_Revenue

#### FROM order\_details;



# SELECT AVG(Amount) AS Average\_Price

#### FROM order\_details;



CREATE VIEW customer\_sales\_summary AS

SELECT lo.CustomerName, SUM(od.Amount \* od.Quantity) AS Total\_Spent

FROM list\_of\_orders lo

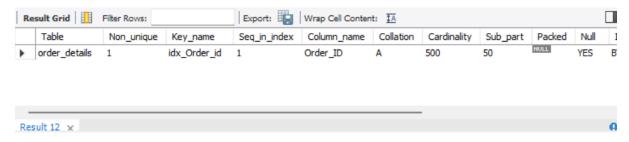
# JOIN order\_details od ON lo.Order\_ID = od.Order\_ID

#### GROUP BY lo.CustomerName;



# CREATE INDEX idx\_Order\_id ON order\_details(Order\_id(50));

#### SHOW INDEX FROM order\_details;



#### CREATE INDEX idx\_customer\_Name ON list\_of\_orders(CustomerName(50));

### SHOW INDEX FROM list\_of\_orders;

