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Q1. What are the least popular categories of products sold ?
USE mydb;
CREATE VIEW Least Popular Categories AS
SELECT D.CategoryID, CategoryName, sum(Transaction Amount) as Total Amount
FROM mydb.order AS A
INNER JOIN mydb.order has product AS B
ON A.OrderID=B.OrderID
INNER JOIN mydb.product AS C
on B.ProductID=C.ProductID
INNER JOIN mydb.product category AS D
on C.CategoryID=D.CategoryID
GROUP BY D.CategoryID, CategoryName
ORDER BY Total Amount ASC;
O2. Which retail stores have the most amount of sales ?
USE mydb;
CREATE VIEW Top Sales Stores AS
SELECT E.Store Name, E.Store City, E.Store State, sum (Transaction Amount) as
Total Amount
FROM mydb.order AS A
INNER JOIN mydb.order has product AS B
ON A.OrderID=B.OrderID
INNER JOIN mydb.product AS C
on B.ProductID=C.ProductID
INNER JOIN mydb.store has product AS D
on C.ProductID=D.ProductID
INNER JOIN mydb.store AS E
ON D.StoreID=E.StoreID
GROUP BY E.Store Name, E.Store City, E.Store State
ORDER BY Total Amount DESC;
Q3. Which payment ID is most and least preferred by students ?
USE mydb;
CREATE VIEW Payment Methods AS
SELECT B. PaymentMethod, COUNT (DISTINCT C. CustomerID) as Total customers
FROM mydb.order AS A
INNER JOIN mydb.payment AS B
ON A.PaymentID=B.PaymentID
INNER JOIN mydb.customer AS C
ON A.CustomerID=C.CustomerID
GROUP BY B.PaymentMethod
ORDER BY Total customers DESC;
Q4. Calculate the total number of discounted and undiscounted products
purchased and identify which were purchased more?
USE mydb;
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CREATE VIEW Product Quantities AS

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SELECT sum(CASE WHEN C.DISCOUNTID IS NULL THEN Quantity END) as
Number of undiscounted products, sum(CASE WHEN C.DISCOUNTID IS NOT NULL
THEN Quantity END) as Number of discounted products
FROM mydb.order has product AS A
INNER JOIN mydb.Product AS B
ON A.ProductID=B.productID
LEFT JOIN mydb.discount AS C
on B.DiscountID=C.DiscountID;
Q5. What is the total number of delivery agents in each state? How does
these values compare to the number of delivery agents having maximum
rating in each of those states?
USE mydb;
CREATE VIEW Delivery Agents States AS
SELECT Delivery State, COUNT (DISTINCT B.Delivery AgentID) AS total agents,
(SELECT COUNT(DISTINCT B2.Delivery AgentID)
FROM mydb.delivery AS A2
INNER JOIN (
SELECT Delivery AgentID
FROM mydb.delivery agent AS B2
WHERE Agent Rating = (SELECT MAX(Agent Rating) FROM mydb.delivery agent)
ON A2.Delivery AgentID = B2.Delivery AgentID
WHERE A2.Delivery State = A.Delivery State) AS top rated agents
FROM mydb.delivery AS A
INNER JOIN mydb.delivery agent AS B ON A.Delivery AgentID =
B.Delivery AgentID
GROUP BY Delivery State
ORDER BY total agents DESC;
Q6. How many deliveries were COMPLETED where the estimated delivery time
(EDT) is greater than the average EDT of all the completed deliveries?
USE mydb;
CREATE VIEW Delayed Deliveries AS
SELECT COUNT (DISTINCT DeliveryID) AS no of delayed deliveries
( SELECT DeliveryID, EstimatedDeliveryTime mins, Delivery Status FROM
mydb.delivery WHERE Delivery Status = 'Completed') AS A
where EstimatedDeliveryTime mins > (SELECT
TRUNCATE (AVG (EstimatedDeliveryTime mins), 2) AS Avg ETA from
mydb.delivery);
Q7. Which state has the most number of delayed deliveries (wherein the EDT
is greater than the average EDT) ?
USE mydb;
CREATE VIEW States Delayed Deliveries AS
SELECT Delivery State, COUNT(DISTINCT DeliveryID) AS
no of delayed deliveries FROM
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(SELECT DeliveryID, EstimatedDeliveryTime_mins, Delivery_State FROM
mydb.delivery WHERE Delivery_Status ='Completed') AS A
where EstimatedDeliveryTime_mins > (SELECT
TRUNCATE(AVG(EstimatedDeliveryTime_mins),2) AS Avg_ETA from
mydb.delivery)
GROUP BY Delivery_State
ORDER BY no of delayed deliveries DESC;