## --VANQOUVER SQL ANALYSIS--

- --1. Show the entire table select\* from orders;
- --2 Show the product column select "ProductID" from orders;
- --3. What is the total quantity of products ordered? select sum("Quantity") from orders;
- --4. What is the average price of products in each category? select "ProductCategory", round(avg("Price"),2) from products group by "ProductCategory";
- --5. What product is the most ordered in each city? select "PropertyID", "ProductID", sum("Quantity") from orders

  Group by "PropertyID", "ProductID"

  Order by "PropertyID" ASC, sum ("Quantity") DESC;
- --6. What is the total quantity for each product ordered in New York?--
- --Here, you need to get the PropertyID of New York.--
- -- The difference here is the use of where statement which is the filter statement-
- --where "PropertyID" = 1 = New York--

select "PropertyID", "ProductID",sum ("Quantity") from orders where "PropertyID" = 1 group by "PropertyID","ProductID" order by sum ("Quantity") desc;

--7. What are our top 5 products with a quantity of more than 100—

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select "ProductID", sum("Quantity")
from orders
group by "ProductID"
having sum("Quantity") > 100
order by sum("Quantity") desc
limit 5;
-- 8. What transactions occurred between 2015-01-16 to 2015-01-20--
select *
from orders
where "OrderDate"
between '2015-01-16' and '2015-01-20';
--9. Identify the product with the highest average price--
--Answer if working with ProductID--
select "ProductID", round(avg("Price"),2)
from products
group by "ProductID"
order by round(avg("Price"),2)desc
limit 1;
--9. Identify the product with the highest average price--
-- Answer if working with ProductName--
select "ProductName", round(avg("Price"),2) from products
group by "ProductName"
order by round(avg("Price"),2)desc
limit 1;
--9. Identify the product with the highest average price--
-- Answer if working with ProductCategory--
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select "ProductCategory", round(avg("Price"),2)
from products
group by "ProductCategory"
order by round(avg("Price"),2)desc
limit 1;
--10. Find out the total revenue made from the sales of product in each state--
--You need the information about Price, Quantity and PropertyID ie. for each state name--
--ProductID is common to both the orders table and products table. This is inner join--
--("Quantity" * "Price") as "Revenue"--
--The state name is in propertyinfo table as PropertyState then we need to connect to--
--the propertyinfo table using inner join statement--
select "PropertyID", "Quantity", "Price", ("Quantity" *"Price") as "Revenue",
orders."ProductID", products."ProductID", "PropertyState", "ProductName"
from orders
inner join products
on orders."ProductID" = products."ProductID"
inner join propertyinfo
on orders."PropertyID" = propertyinfo."PropID";
--10. Find out the total revenue made from the sales of product in each state--
select "PropertyID", "Quantity", "Price", ("Quantity" * "Price") as "Revenue",
"PropertyState", "ProductName" from orders
inner join products
on orders. "ProductID" = products. "ProductID"
inner join propertyinfo
on orders."PropertyID" = propertyinfo."PropID";
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--11. In what days were orders made?--
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- --Use select distinct to remove duplicate from "OrderDate"--
- --You can select to see other columns in addition to "OrderDate" if desired--

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--You can use order by in DESC if desired---
select distinct "OrderDate"
from orders
order by "OrderDate" desc;
--12. Last year a raffle draw was held in a city with the letter "e",--
--which cities with the letter "e" do we get orders?--
select "PropertyCity"
from propertyinfo
where "PropertyCity" like '%e%';
--13. Classify the Revenue ( < 100 - Small Income, 100 - 199 Mid Income, --
--200 - 299 High Income, 300 > Mighty Income--
select ("Price" * "Quantity") as "Revenue",
case
when ("Price" * "Quantity") <100 then 'Small Income'
when ("Price" * "Quantity") <200 then 'Mid Income'
when ("Price" * "Quantity") <300 then 'High Income'
else 'Mighty Income'
end as "Financial Statement"
from orders
inner join products
on orders."ProductID" = products."ProductID";
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