DAB 203 – Graded LAB 05

Q1. Create a query for daily distribution (Day of the week) of sum of TotalPrice on BillDate. Create the appropriate chart in Excel.

select datepart(dw,billdate) as 'Day Of Week', sum(totalprice) as 'Total Price'

from orderlines

group by datepart(dw, billdate)

order by 'Day of Week';

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Q2. Create a query to show yearly distribution of number of subscribers by start date for each of the four channels for the years 2004 and later. Your SQL query result should be in the following format.

select year([start\_date]) as Year,

sum(case when channel = 'Chain' then 1 else 0 end) as Chain,

sum(case when channel = 'Dealer' then 1 else 0 end) as Dealer,

sum(case when channel = 'Mail' then 1 else 0 end) as Mail,

sum(case when channel = 'Store' then 1 else 0 end) as Store

from Subscribers

where year([start\_date]) in (2004,2005,2006)

group by year([start\_date])

order by year([start\_date]);

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Q3. Create a query to show yearly distribution of number of subscribers by stop date for each of the four channels. Combine the result with result of Q2. in Excel and clean up data so that the final output looks like this.

select year(StartDate) as Year,

sum(case when channel = 'Chain' then 1 else 0 end) as Start\_Chain,

sum(case when channel = 'Dealer' then 1 else 0 end) as Start\_Dealer,

sum(case when channel = 'Mail' then 1 else 0 end) as Start\_Mail,

sum(case when channel = 'Store' then 1 else 0 end) as Start\_Store

from Subscribers

where year(StartDate) in (2004,2005,2006)

group by year(StartDate)

order by year(StartDate);

select year(StopDate) as Year,

sum(case when channel = 'Chain' then 1 else 0 end) as Stop\_Chain,

sum(case when channel = 'Dealer' then 1 else 0 end) as Stop\_Dealer,

sum(case when channel = 'Mail' then 1 else 0 end) as Stop\_Mail,

sum(case when channel = 'Store' then 1 else 0 end) as Stop\_Store

from Subscribers

where year(StopDate) in (2004,2005,2006)

group by year(StopDate)

order by year(StopDate);

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Q4. Create a query for the monthly rate plan to show number of subscribers in each plan. Make sure you only count the active subscribers. Your SQL query results should be in the following format.

select month([start\_date]) as Month,

sum(case when [rate\_plan] = 'Top' then 1 else 0 end) as Topmost,

sum(case when [rate\_plan] = 'Middle' then 1 else 0 end) as Middle,

sum(case when [rate\_plan] = 'Bottom' then 1 else 0 end) as Bottom

from Subscribers

where year([start\_date]) in (2004,2005,2006) and IsActive= 1

group by month([start\_date])

order by month([start\_date]);

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Q5. Write a query to show the tenure (in terms of years) and total monthly fee for subscribers who have stopped subscription.

select (year(StopDate)-year(StartDate)) as 'Calculated Tenure', Sum(MonthlyFee) as MonthlyFee

from Subscribers

where IsActive = 0 and year(StartDate) >= 2004

group by (year(StopDate)-year(StartDate))

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