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| 9.0 SQL ASSIGNMENTS |
| Note : For Solving these assignments you will need advertureWork2008DW  This assignment is related to clauses, joins, functions of SQL SERVER |

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**EXECUTE THIS QUERY IN SQL SERVER TO ANALYSE THE DATA**

QUERIES ASSIGNMENT [Using AdventureWorksDW database]

1. Write a query to find Sales Amount of each customer.

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1. Write a query to find Sales Amount of each product.
2. Write a query to find no of customers for each product.
3. Write a query to find the top 3 customers with highest sales amount.
4. Write a query to find the 3rd highest customers (eg : the customer who is the third highest salesamount)
5. Write a query to find the total sales amount for each category **[Sample answer below]**

SELECT **C**.EnglishProductCategoryName,SUM(F.SALESAMOUNT) AS **[TOTAL-SALES]**

FROM **DIMPRODUCTCATEGORY C**

INNER JOIN **DimProductSubcategory S** ON

C.ProductCategoryKey=S.ProductCategoryKey

INNER JOIN **DIMPRODUCT P** ON **S**.ProductSubcategoryKey=P.ProductSubcategoryKey

INNER JOIN **FACTINTERNETSALES F** ON **F**.PRODUCTKEY=P.PRODUCTKEY

GROUP BY **C**.EnglishProductCategoryName

1. Write a query to find the total sales amount for each subcategory **[Sample answer below]**

SELECT **S**.EnglishProductSubcategoryName,SUM(F.SALESAMOUNT)AS **[TOTAL-SALES]** FROM

DimProductSubcategory S

INNERJOIN **DIMPRODUCT P** ON **S**.ProductSubcategoryKey=P.ProductSubcategoryKey

INNERJOIN **FACTINTERNETSALES F** ON **F**.PRODUCTKEY=P.PRODUCTKEY

GROUPBY **S**.EnglishProductSubcategoryName

1. Write a query to find the total sales amount for each product
2. Write a query to find the total sales amount for each category,subcategory & product.
3. Write a query to find the product having the highest sales amount.
4. Write a query to find the product having the fifth highest sales amount.
5. Write a query to find the product which have zero sales amount or not have been sold
6. Write a query to find the total sales amount for each Territory.
7. Write a query to find the total sales amount from 1st Jan 2005 to 31st Dec 2011.
8. Write a query to find the customer having highest sales amount from 1st Jan 2005 to 31st Dec 2011.
9. Write a query to find each year total sales amount.
10. Write a query to find each month total sales amount for each year.

SAMPLE QUERY

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| SELECT C.EnglishProductCategoryName,S.EnglishProductSubcategoryName,  P.EnglishProductName,F.SalesAmount  FROM DimProductCategory C  INNER JOIN DimProductSubcategory S  ON C.ProductCategoryKey=S.ProductCategoryKey  INNERJOIN DimProduct P  ON S.ProductSubcategoryKey=P.ProductSubcategoryKey  INNER JOIN FactInternetSales F  ON P.ProductKey=F.ProductKey    SELECT C.EnglishProductCategoryName,  S.EnglishProductSubcategoryName,D.CalendarYear,  SUM(F.SALESAMOUNT)AS[TOTAL-SALES]  FROM DIMPRODUCTCATEGORY C  INNER JOIN DimProductSubcategoryS ON  C.ProductCategoryKey=S.ProductCategoryKey  INNER JOIN  DIMPRODUCT P ON  S.ProductSubcategoryKey=P.ProductSubcategoryKey  INNER JOIN FACTINTERNETSALES F ON F.PRODUCTKEY=P.PRODUCTKEY  INNER JOIN DIMDATE D ON D.DateKey=F.OrderDateKey  Where C.EnglishProductCategoryName=@name  GROUP BY C.EnglishProductCategoryName,S.EnglishProductSubcategoryName,D.CalendarYear |