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| 11.0 SQL ASSIGNMENTS |
| Note : For Solving these assignments you will need advertureWork2008DWThis assignment is related to Functions, Stored Procedures & Views |

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

FUNCTIONS ASSIGNMENT [Using AdventureWorksDW database]

1. Write a function to add two numbers.
2. Write a function to add /sub/mul/div based upon the mode passed. (Eg: user will pass two numbers and mode, (5, 6,”Add”) accordingly it should return value).
3. Write a function to find the total number of customers for a product. User will enter a productname, based upon the name it should return the number of customers for that product.
4. Write a function to find the sales amount for given date range. User will enter the start date and end date and accordingly it should return the sales amount.
5. Write a function to find the sales amount for given Year. User will enter the Year accordingly it should return the sales amount.
6. Write a function to find the sales amount for given Year and Month. User will enter the Year and Month and accordingly it should return the total sales amount.
7. Write a function to get the top n product sales amount based upon number entered by user. For eg If user enter 7 it should be 7th highest, if user enter 5 it should be 5th highest.
8. Write a function to calculate profile. Profit will be salesamount – tax.

VIEWS ASSIGNMENT [Using AdventureWorksDW database]

1. Create a view for category,subcategory, and product sales details.
2. Create a view for customer, category, subcategory, product sales details.
3. Create a view for territory, category, subcategory, product sales details.
4. Create a View for Prospective Buyer which has owned a house.
5. Create a View for Prospective Buyer which have a single car.

SQL SERVER STORED PROCEDURE ASSIGNMENTS [eg :AdventureWorksDW database]

1. WRITE A STORED PROCEDURE TO FIND THE TOTAL SALES OF A PRODUCT.

THE USER WILL ENTER THE PRODUCT NAME AND IT SHOULD RETURN THE TOTALSALESAMOUNT AS OUTPUT. **[Sample answer below]**

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| ALTERPROCEDURESP\_PRODUCTNAME@NAMENVARCHAR(100)ASBEGINSELECTSUM(SalesAmount)FROMFactInternetSalesFINNERJOINDimProductPONF.ProductKey=P.ProductKeyWHEREP.EnglishProductName=@NAMEEND |

1. WRITE A STORED PROCEDURE TO FIND THE PROUCT KEY AND PRODUCTNAME FOR THE CATEGORY. **[Sample answer below]**

The user will enter the categoryname and it will return the list of products for that category.

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| CREATEPROCEDURESP\_GETPRODUCTS@NAMENVARCHAR(100)ASBEGINSELECT\*FROMDimProductCategoryCINNERJOINDimProductSUBCategorySONC.ProductCategoryKey=S.ProductCategoryKeyINNERJOINDimProductPONS.ProductSubcategoryKey=P.ProductSubcategoryKeyWHEREC.EnglishProductCategoryName=@NAMEEND |

1. WRITE A STORED PROCEDURE TO FIND THE CUSTOMER KEY AND CUSTOMER NAME FOR THE PRODUCT.

The user will enter the productname and it will return the list of customers for that product.

1. Write a procedure to find the sales amount of each category.
2. Write a procedure to enter a sales entry into FactInternetSales.
3. Write a procedure to find the sales amount for each sales territory.
4. Write a procedure to find the sales details for givendate range. User will enter the start date and end date and based upon that the sales for the period should be displayed.
5. Write a procedure to get total sales amount for a category or sub category or product.

If user enters a category name, it should give the totalsales for that category.

 If user enters subcategoryname, it should give the totalsales for that sub-category.

If user enter product name, it should give the total sales for that product.

1. Write a procedure to find the number of males and females in employee table.
2. Write a procedure to find the number of employees in each territory.