**Section : 03**

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**Challenge 1: Retrieve Product Information**

**Que 1:**

-- Retrieve product model descriptions

SELECT A.ProductID,

A.name AS ProductName,

B.Name AS ProductModelName,

B.Summary AS ProductModelSummary

FROM AdventureWorksLT2012.SalesLT.Product AS A

JOIN AdventureWorksLT2012.SalesLT.vProductModelCatalogDescription AS B

ON A.ProductModelID = B.ProductModelID;

**Que 2:**

-- Create a table of distinct colors

DECLARE @varProducts TABLE(Color VARCHAR(20));

INSERT INTO @varProducts

SELECT DISTINCT

color

FROM AdventureWorksLT2012.SalesLT.Product

WHERE color IS NOT NULL;

SELECT ProductID,

Name,

A.Color

FROM AdventureWorksLT2012.SalesLT.Product AS A

JOIN @varProducts AS B

ON A.Color = B.Color;

**Que 3:**

--Retrieve product parent categories

SELECT A.ProductID,

A.Name AS ProductName,

B.ParentProductCategoryName AS ParentCatgory,

B.ProductCategoryName AS Category

FROM AdventureWorksLT2012.SalesLT.Product AS A

JOIN dbo.ufnGetAllCategories() AS B

ON A.ProductCategoryID = B.ProductCategoryID;

**Challenge 2: Retrieve Customer Sales Revenue**

**Que 1:**

--Retrieve sales revenue by customer and contact

SELECT [Comapny(Contact Name)],

SUM(SubTotal) "Total Revenue"

FROM

(

SELECT A.CompanyName+'( '+A.FirstName+' '+A.LastName+')' AS "Comapny(Contact Name)",

A.CustomerID,B.SalesOrderID,B.SubTotal

FROM AdventureWorksLT2012.SalesLT.Customer AS A

JOIN AdventureWorksLT2012.SalesLT.SalesOrderHeader AS B

ON A.CustomerID = B.CustomerID

) AS C

GROUP BY [Comapny(Contact Name)]

ORDER BY SUM(SubTotal) DESC;