Q1A: ANS:

select SOD.SalesOrderID,P.Name as [Product\_Name],

PS.Name[Product\_SubCategory\_Name],

PC.Name[Product\_Category\_Name],

SOD.UnitPrice,

SOD.UnitPriceDiscount,

SOD.LineTotal

from Sales.SalesOrderDetail SOD

inner join Production.Product P

on SOD.ProductID=P.ProductID

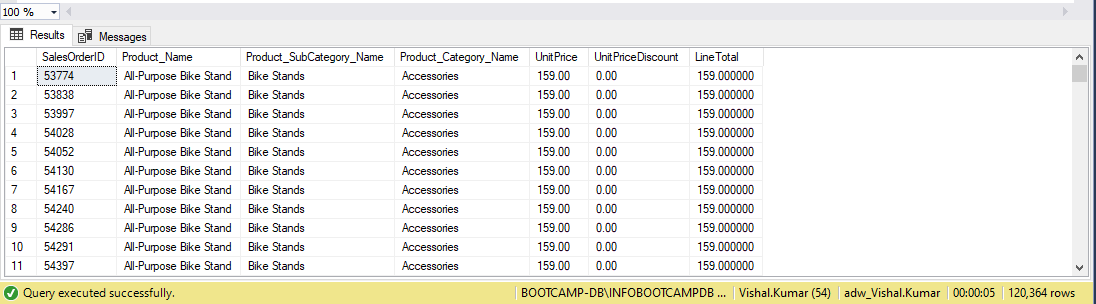
inner join Production.ProductSubcategory PS

on P.ProductSubcategoryID=PS.ProductSubcategoryID

inner join Production.ProductCategory PC

on PS.ProductCategoryID=PC.ProductCategoryID

order by P.Name



Q1B: ANS:

select P.ProductID,P.Name as [Product],

PS.ProductSubcategoryID,

PS.Name as [ProductSubCategory],

PC.ProductCategoryID,

PC.Name As [Product Category]

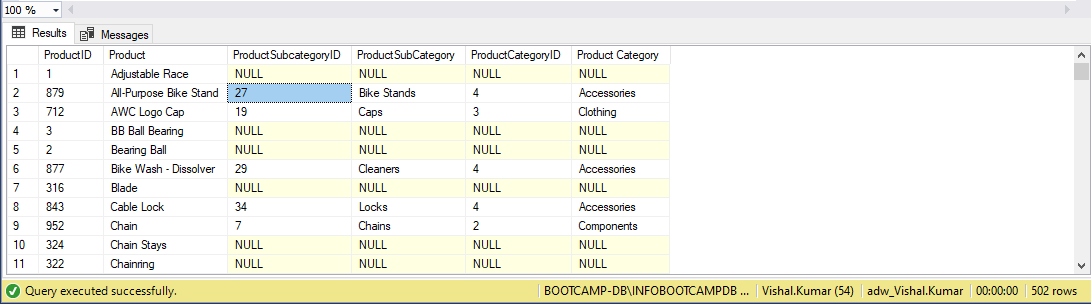
from Production.Product P

full join Production.ProductSubcategory PS

on P.ProductSubcategoryID=PS.ProductSubcategoryID

full join Production.ProductCategory PC

on PS.ProductCategoryID=PC.ProductCategoryID

order By P.Name 

Q2: ANS:

select PC.Name as [Product Category],SO.OrderDate , sum(SO.SubTotal) as SubTotal

from Sales.SalesOrderHeader SO

inner join Sales.SalesOrderDetail SD

on SO.SalesOrderID=SD.SalesOrderID

inner join Production.Product P

on P.ProductID=SD.ProductID

inner join Production.ProductSubcategory PS

on P.ProductSubcategoryID=PS.ProductSubcategoryID

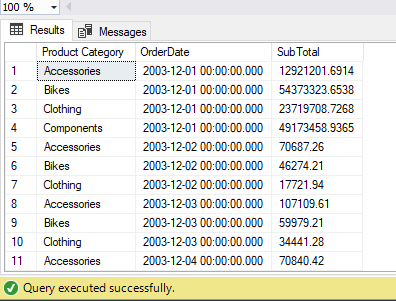
inner join Production.ProductCategory PC

ON PS.ProductCategoryID=PC.ProductCategoryID

where year(SO.OrderDate)=2003 and month(SO.OrderDate)=12

group by PC.Name ,SO.OrderDate

ORDER BY SO.OrderDate



Q3: ANS:

SELECT SOH.SalesOrderID ,

SR.Name AS [Sales Reason],

SR.ReasonType,

SOH.ShipDate,

SOH.SubTotal,

SOH.TaxAmt,

SOH.Freight,

SOH.TotalDue

FROM Sales.SalesOrderHeader SOH

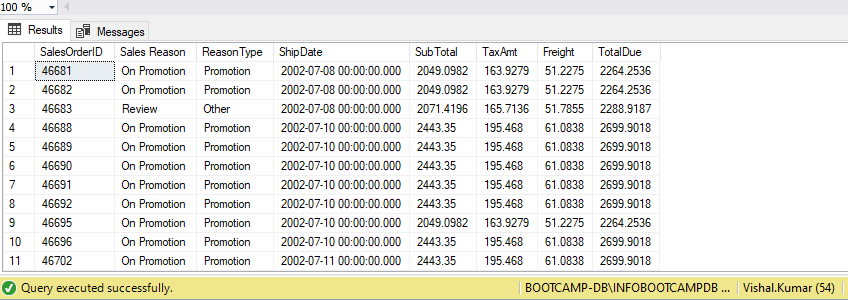
INNER JOIN Sales.SalesOrderHeaderSalesReason SOHR

ON SOH.SalesOrderID=SOHR.SalesOrderID

INNER JOIN Sales.SalesReason SR

ON SOHR.SalesReasonID=SR.SalesReasonID

WHERE SR.Name <> 'Quality' AND SR.Name <> 'Manufacturer'



Q4: ANS:

SELECT DISTINCT P.Name AS [having DiscountPct less than equal to 0.45]

FROM Sales.SpecialOffer SO

INNER JOIN Sales.SpecialOfferProduct SOP

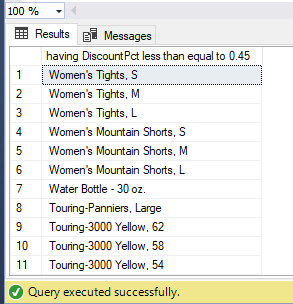
ON SO.SpecialOfferID=SOP.SpecialOfferID

INNER JOIN Production.Product P

ON P.ProductID=SOP.ProductID

WHERE SO.DiscountPct<=0.45 AND P.Name NOT LIKE 'R%'

ORDER BY P.Name DESC



Q5: ANS:

SELECT Name

FROM Production.Product

WHERE Name like '%[0-9]%'

Or Name like '%-%'

Or Name like '%?%'

Or Name like '%+%'

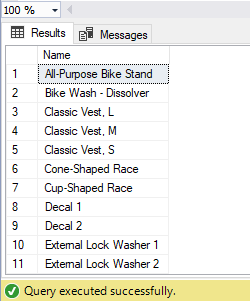
Or Name like '%/%'

Or Name like '%\*!@#$%^%&%().%=%'

Or Name like '%,%'

Or Name like '%''%'

Or Name like '%"":;{}\|``,~%'



Q6: ANS:

SELECT SP.Name AS "Province Name",

ST.TaxRate ,

ST.Name AS "Tax Name"

FROM [Person].[StateProvince] SP

JOIN [Sales].[SalesTaxRate] ST

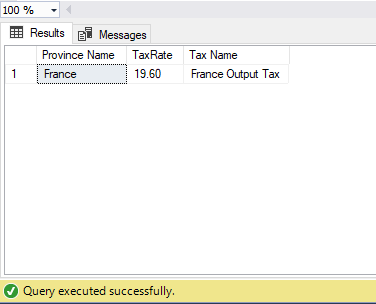
ON SP.StateProvinceID = ST.StateProvinceID

WHERE ST.TaxRate=(SELECT MAX(ST.TaxRate)

FROM [Person].[StateProvince] SP

JOIN [Sales].[SalesTaxRate] ST

ON SP.StateProvinceID = ST.StateProvinceID)



Q7: ANS:

select ST.Name AS [Location],

PC.Name AS [Category],

SUM(SOD.LineTotal) AS [Revenue Generated]

fROM Sales.SalesTerritory ST

INNER JOIN Sales.SalesOrderHeader SOH

ON ST.TerritoryID=SOH.TerritoryID

INNER JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID=SOD.SalesOrderID

INNER JOIN Production.Product P

ON SOD.ProductID=P.ProductID

INNER JOIN Production.ProductSubcategory PS

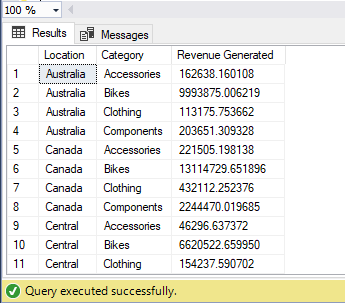
ON P.ProductSubcategoryID=PS.ProductSubcategoryID

INNER JOIN Production.ProductCategory PC

ON PS.ProductCategoryID=PC.ProductCategoryID

GROUP BY ST.Name,PC.Name

ORDER BY ST.Name



Q8: ANS:

with cte as(

select

CASE

WHEN DATEDIFF(YEAR,E.HireDate,GETDATE()) < 15 THEN 'Less than 15'

WHEN DATEDIFF(YEAR,E.HireDate,GETDATE()) BETWEEN 15 AND 18 THEN 'greater than 15 and less than 18'

WHEN DATEDIFF(YEAR,E.HireDate,GETDATE()) > 18 THEN 'greater than 18'

END AS Experience ,

SP.SalesYTD AS [Total Sales],

E.EmployeeID AS Employee\_ID

from HumanResources.Employee E

LEFT JOIN Sales.SalesPerson SP

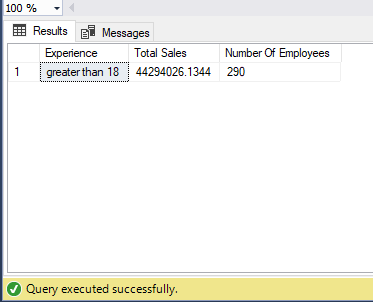
ON SP.SalesPersonID=E.EmployeeID

)

SELECT Experience,SUM([Total Sales]) AS [Total Sales],COUNT(Employee\_ID) as [Number Of Employees]

FROM cte

GROUP BY Experience



Q9: ANS:

select PC.Name AS [ Category Name],

AVG(SOD.OrderQty) AS [Units Sold]

from Sales.SalesOrderDetail SOD

INNER JOIN Production.Product P

ON P.ProductID=SOD.ProductID

INNER JOIN Production.ProductSubcategory PS

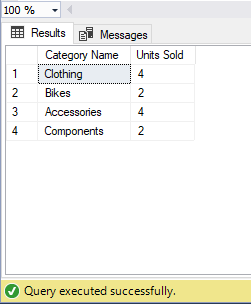
ON PS.ProductSubcategoryID=P.ProductSubcategoryID

INNER JOIN Production.ProductCategory PC

ON PC.ProductCategoryID=PS.ProductCategoryID

WHERE SOD.ModifiedDate BETWEEN '2003-01-04 00:00:00.000' AND '2003-05-30 00:00:00.000'

GROUP BY PC.Name



Q10A: ANS:

WITH cte\_ClothingsQty AS ( -- this cte\_ClothingsQTY will hold the quantity of clothing sold in year 2003

SELECT YEAR(SOH.OrderDate) AS [Year],

MONTH(SOH.OrderDate) AS [Month],

SUM(SOD.OrderQty) AS [ClothingSalesQTY]

FROM [Sales].[SalesOrderHeader] SOH

JOIN [Sales].[SalesOrderDetail] SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN [Production].[Product] P

ON SOD.ProductID = P.ProductID

JOIN [Production].[ProductSubcategory] PS

ON P.ProductSubcategoryID = PS.ProductSubcategoryID

JOIN [Production].[ProductCategory] PC

ON PS.ProductCategoryID = PC.ProductCategoryID

WHERE YEAR(SOH.OrderDate) = 2003 AND PC.Name = 'Clothing'

GROUP BY YEAR(SOH.OrderDate), MONTH(SOH.OrderDate) ---group by month will display sales in each month for clothing category

),

cte\_BikesQty AS (

SELECT YEAR(SOH.OrderDate) AS [Year],

MONTH(SOH.OrderDate) AS [Month],

SUM(SOD.OrderQty) AS [BikesSalesQTY]

FROM [Sales].[SalesOrderHeader] SOH

JOIN [Sales].[SalesOrderDetail] SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN [Production].[Product] P

ON SOD.ProductID = P.ProductID

JOIN [Production].[ProductSubcategory] PS

ON P.ProductSubcategoryID = PS.ProductSubcategoryID

JOIN [Production].[ProductCategory] PC

ON PS.ProductCategoryID = PC.ProductCategoryID

WHERE YEAR(SOH.OrderDate) = 2003 AND PC.Name = 'Bikes'

GROUP BY YEAR(SOH.OrderDate), MONTH(SOH.OrderDate))

SELECT C.Year,

C.Month,

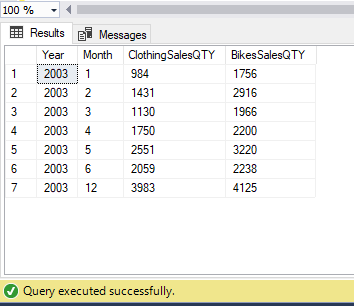
C.ClothingSalesQTY,

B.BikesSalesQTY

FROM cte\_ClothingsQty C,

cte\_BikesQty B -- this will compare sales of both categories

WHERE (C.Month = B.Month) AND (C.ClothingSalesQTY < B.BikesSalesQTY)



Q10B: ANS:

SELECT LEFT(P.Name,10) AS Product\_Name\_Broken, -- getting first 10 characters from string

PD.Description

FROM Production.Product P

JOIN Production.ProductModelProductDescriptionCulture PM

ON P.ProductModelID = PM.ProductModelID

JOIN Production.ProductDescription PD

ON PM.ProductDescriptionID = PD.ProductDescriptionID



Q11: ANS:

SELECT LEFT(P.Name,10) as Broken\_Product\_Name,

PD.[Description],

(len(P.Name) - len(left(P.Name,10))) as No\_of\_characters\_deleted -- gives number of characters deleted

FROM Production.Product P

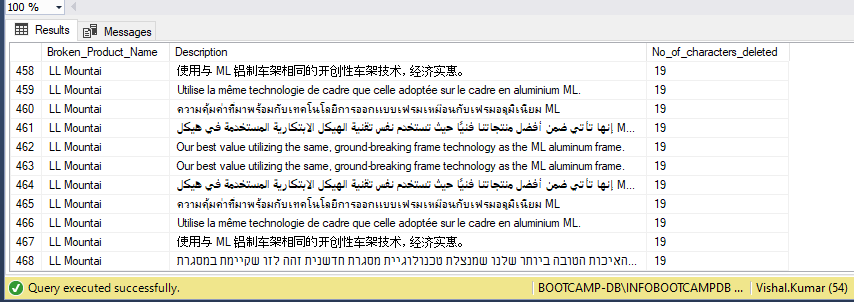
JOIN Production.ProductModelProductDescriptionCulture PM

ON P.ProductModelID = PM.ProductModelID

JOIN Production.ProductDescription PD

ON PM.ProductDescriptionID = PD.ProductDescriptionID

ORDER BY P.Name;



Q12: ANS:

SELECT SUM(SOD.OrderQty) AS Total\_Products\_Sold

FROM HumanResources.Employee E

JOIN Sales.SalesPerson SP

ON E.EmployeeID = SP.SalesPersonID

JOIN Sales.SalesOrderHeader SOH

ON SP.SalesPersonID = SOH.SalesPersonID

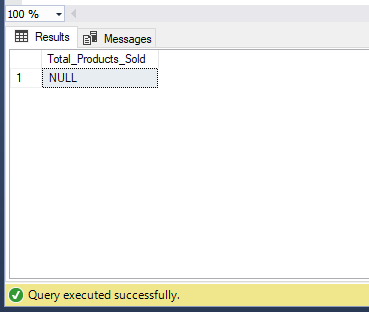
JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

WHERE E.MaritalStatus ='M'

AND ((DATEDIFF(MM,E.BirthDate,GETDATE())/12) BETWEEN 40 AND 50)

AND SOD.ModifiedDate BETWEEN '2003-07-01' AND '2003-09-30'



Q13: ANS:

SELECT COUNT(SC.CustomerID) AS "Count\_of\_Customers"

FROM (SELECT SOH.CustomerID,

COUNT(DISTINCT(PSC.ProductCategoryID)) AS [Count]

FROM Sales.Customer C

JOIN Sales.SalesOrderHeader SOH

ON C.CustomerID = SOH.CustomerID

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PSC

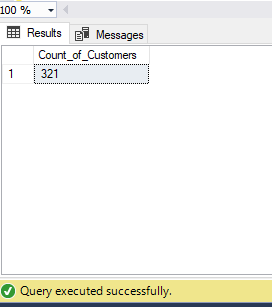
ON P.ProductSubcategoryID = PSC.ProductSubcategoryID

JOIN Production.ProductCategory PC

ON PSC.ProductCategoryID = PC.ProductCategoryID

GROUP BY SOH.CustomerID) AS SC WHERE SC.[Count]=4

GROUP BY SC.[Count]



Q14: ANS:

WITH Bike(Category, TotalSales ) -- calculates total sales of Bike

AS ( SELECT PC.Name AS "Category",

SUM(SOD.LineTotal) AS "Sales Total"

FROM Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PSC

ON P.ProductSubcategoryID = PSC.ProductSubcategoryID

JOIN Production.ProductCategory PC

ON PSC.ProductCategoryID = PC.ProductCategoryID

WHERE PC.Name = 'Bikes' AND SOH.OrderDate LIKE '%2004%' AND MONTH(SOH.OrderDate) ='06'

GROUP BY PC.Name ),

Accessories(Category, TotalSales ) AS ( SELECT PC.Name AS "Category",

SUM(SOD.LineTotal) AS "TotalSales"

FROM Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PSC

ON P.ProductSubcategoryID = PSC.ProductSubcategoryID

JOIN Production.ProductCategory PC

ON PSC.ProductCategoryID = PC.ProductCategoryID

WHERE PC.Name = 'Accessories' AND SOH.OrderDate LIKE '%2004%' AND MONTH(SOH.OrderDate) ='06'

GROUP BY PC.Name )

SELECT b.Category,b.TotalSales,

CAST((b.TotalSales/SUM(SOD.LineTotal))\*100 AS DECIMAL(10,2)) "Percent to Total" --total sales of bikes/total sales \*100 gives percentage

FROM Bike b, Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

WHERE SOH.OrderDate LIKE '%2004%' AND MONTH(SOH.OrderDate) ='06'

GROUP BY b.Category,b.TotalSales

UNION

SELECT a.Category,a.TotalSales,

CAST((a.TotalSales/SUM(SOD.LineTotal))\*100 AS DECIMAL(10,2)) "Percent to total"

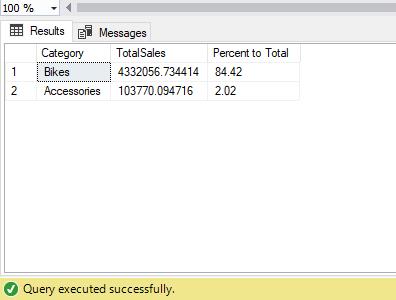
FROM Accessories a,Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

WHERE SOH.OrderDate LIKE '%2004%' AND MONTH(SOH.OrderDate) ='06'

GROUP BY a.Category,a.TotalSales;



Q15: ANS:

WITH cte

AS (

SELECT SUM(SOD.LineTotal) AS "TotalSale" -- total sales grouped by each category

FROM Sales.SalesOrderDetail SOD

INNER JOIN Production.Product P

ON SOD.ProductID = P.ProductID

INNER JOIN Production.ProductSubcategory PSC

ON PSC.ProductSubcategoryID = P.ProductSubcategoryID

INNER JOIN Production.ProductCategory PC

ON PSC.ProductCategoryID = PC.ProductCategoryID

INNER JOIN Sales.SalesOrderHeader SOH

ON SOH.SalesOrderID = SOD.SalesOrderID

WHERE YEAR(SOH.OrderDate) = 2003

AND

DATENAME(MONTH,SOH.[OrderDate]) IN ('April','May' ,'June')

)

SELECT PC.Name Category,

CAST(((SUM(SOD.LineTotal)/CJ.TotalSale) \* 100) AS decimal(10,2)) AS Sales -- rounded to two decimal places

FROM Sales.SalesOrderDetail SOD

CROSS JOIN cte CJ

INNER JOIN Production.Product P

ON SOD.ProductID = P.ProductID

INNER JOIN Production.ProductSubcategory PSC

ON PSC.ProductSubcategoryID = P.ProductSubcategoryID

INNER JOIN Production.ProductCategory PC

ON PSC.ProductCategoryID = PC.ProductCategoryID

INNER JOIN Sales.SalesOrderHeader SOH

ON SOH.SalesOrderID = SOD.SalesOrderID

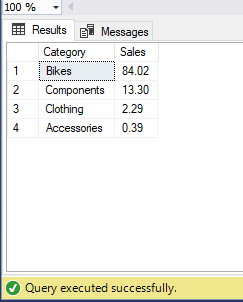
WHERE YEAR(SOH.OrderDate) = 2003

AND

DATENAME(MONTH,SOH.OrderDate) IN ('April','May', 'June')

GROUP BY PC.Name, CJ.TotalSale

ORDER BY Sales DESC



Q16: ANS:

SELECT TOP 1 \*,(Maximum\_Products\_Sold-Minimum\_Products\_Sold) AS Difference\_Between\_Min\_and\_max

FROM

(SELECT PC.Name AS Product\_Category,

MAX(SOD.OrderQty) AS Maximum\_Products\_Sold,

MIN(SOD.OrderQty) AS Minimum\_Products\_Sold -- stores diff between min and max

FROM Sales.SalesOrderDetail SOD

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PSC

ON P.ProductSubcategoryID = PSC.ProductSubcategoryID

JOIN Production.ProductCategory PC

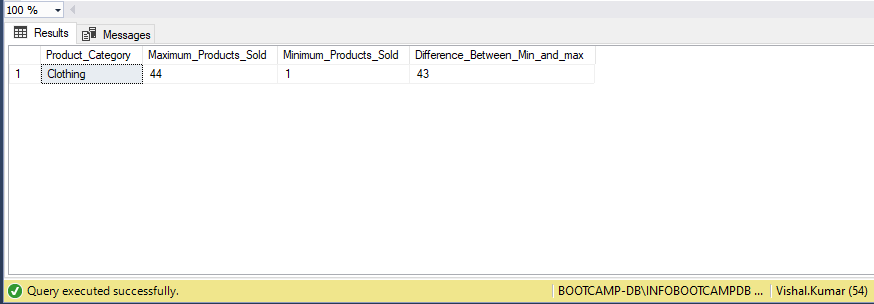
ON PSC.ProductCategoryID = PC.ProductCategoryID

WHERE YEAR(SOD.ModifiedDate) = 2003

group by PC.Name

)A

order by Difference\_Between\_Min\_and\_max DESC



Q17: ANS:

--WITH INTERSECT

SELECT PS.Name

FROM Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PS

ON P.ProductSubcategoryID = PS.ProductSubcategoryID

JOIN Production.ProductCategory PC

ON PS.ProductCategoryID = PC.ProductCategoryID

WHERE (MONTH(SOH.OrderDate) = 1 AND YEAR(SOH.OrderDate) = 2003) AND PC.Name = 'Clothing' -- gives products which were sold in 2003

GROUP BY PS.Name

INTERSECT

SELECT PS.Name

FROM Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PS

ON P.ProductSubcategoryID = PS.ProductSubcategoryID

JOIN Production.ProductCategory PC

ON PS.ProductCategoryID = PC.ProductCategoryID

WHERE (MONTH(SOH.OrderDate) = 2 AND YEAR(SOH.OrderDate) = 2004) AND PC.Name = 'Clothing' -- gives products which were sold in 2004

GROUP BY PS.Name

ORDER BY PS.Name

--WITHOUT INTERSECT

( SELECT PS.Name

FROM Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PS

ON P.ProductSubcategoryID = PS.ProductSubcategoryID

JOIN Production.ProductCategory PC

ON PS.ProductCategoryID = PC.ProductCategoryID

WHERE (MONTH(SOH.OrderDate) = 1 AND YEAR(SOH.OrderDate) = 2003) AND PC.Name = 'Clothing'

GROUP BY PS.Name )

EXCEPT

( SELECT PS.Name

FROM Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PS

ON P.ProductSubcategoryID = PS.ProductSubcategoryID

JOIN Production.ProductCategory PC

ON PS.ProductCategoryID = PC.ProductCategoryID

WHERE (MONTH(SOH.OrderDate) = 1 AND YEAR(SOH.OrderDate) = 2003) AND PC.Name = 'Clothing'

GROUP BY PS.Name

EXCEPT

SELECT PS.Name

FROM Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

JOIN Production.Product P

ON SOD.ProductID = P.ProductID

JOIN Production.ProductSubcategory PS

ON P.ProductSubcategoryID = PS.ProductSubcategoryID

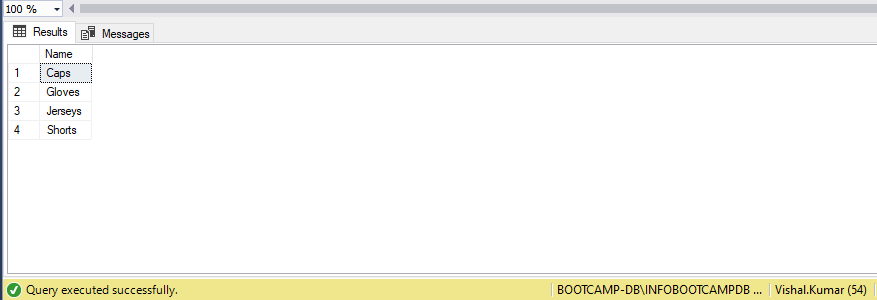
JOIN Production.ProductCategory PC

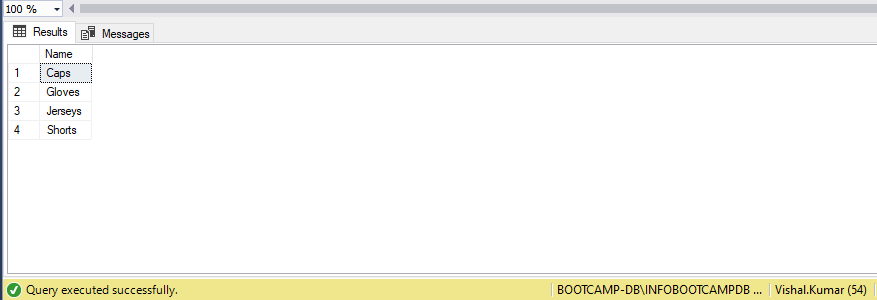
ON PS.ProductCategoryID = PC.ProductCategoryID

WHERE (MONTH(SOH.OrderDate) = 2 AND YEAR(SOH.OrderDate) = 2004) AND PC.Name = 'Clothing'

GROUP BY PS.Name)

ORDER BY PS.Name





Q18: ANS

WITH ABC AS

(

SELECT PC.Name AS "Product\_Category",

P.Name "Product",

AVG(SOD.LineTotal) AS "Minimum\_average\_sale"

FROM Sales.SalesOrderHeader SOH

JOIN Sales.SalesOrderDetail SOD

ON SOD.SalesOrderID = SOH.SalesOrderID

JOIN Production.Product P

ON P.ProductID = SOD.ProductID

JOIN Production.ProductSubcategory PS

ON PS.ProductSubcategoryID= P.ProductSubcategoryID

JOIN Production.ProductCategory PC

ON PC.ProductCategoryID= PS.ProductCategoryID

WHERE YEAR(SOH.OrderDate) = 2003

GROUP BY PC.Name,P.Name

)

SELECT Product\_Category,

Product,

Minimum\_average\_sale

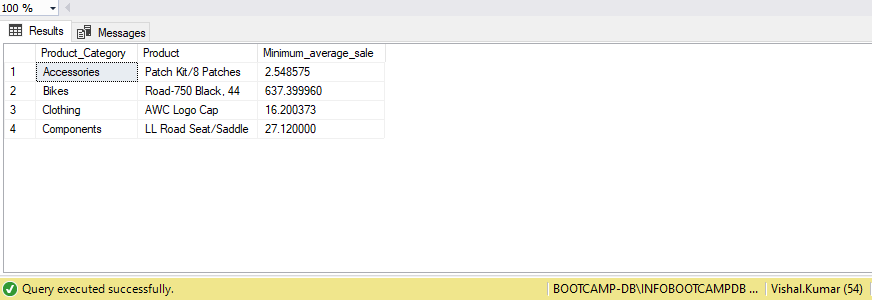
FROM ABC a1

WHERE Minimum\_average\_sale = ( SELECT MIN(Minimum\_average\_sale)

FROM ABC

WHERE Product\_Category= a1.Product\_Category

)



Q19A: ANS

SELECT TOP 25 SalesOrderDetail.ProductID

INTO CustomProductID\_VishalKumar

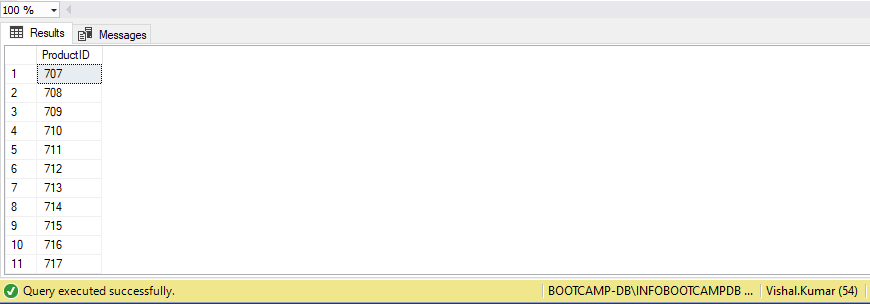
FROM Production.Product Product

JOIN Sales.SalesOrderDetail SalesOrderDetail

ON Product.ProductID = SalesOrderDetail.ProductID

GROUP BY SalesOrderDetail.ProductID

SELECT \* FROM CustomProductID\_VishalKumar



Q19B: ANS:

ALTER TABLE CustomProductID\_VishalKumar

ADD ProductName VARCHAR(50)

UPDATE A

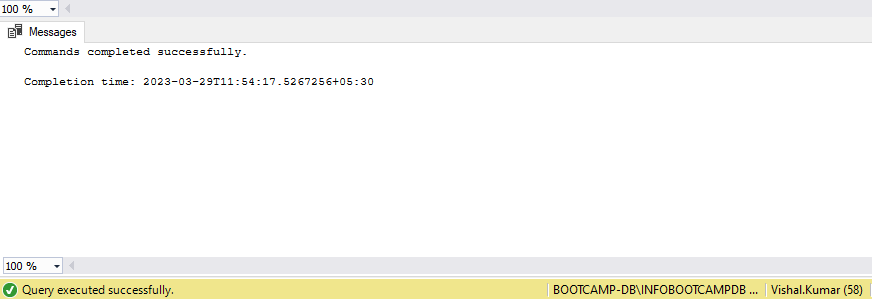
SET A.ProductName = Product.Name

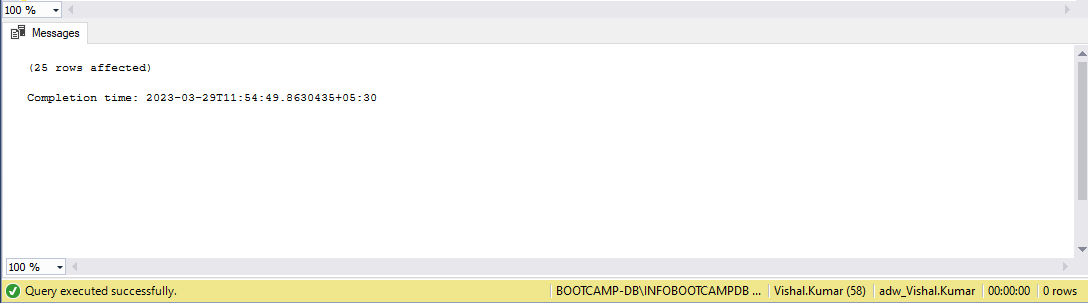
FROM CustomProductID\_VishalKumar A

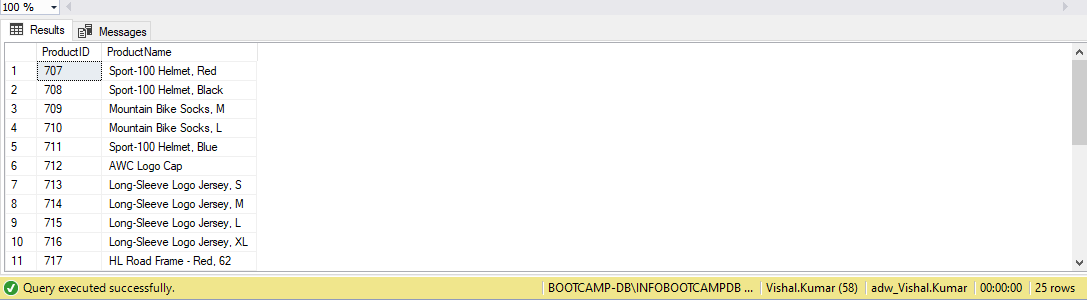
JOIN Production.Product Product

ON Product.ProductID = A.ProductID

SELECT \* FROM CustomProductID\_VishalKumar







Q20: ANS:

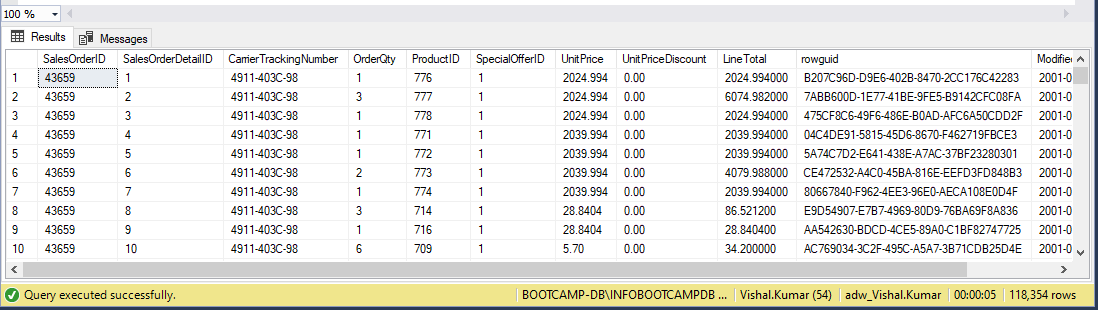
SELECT \* INTO SalesOrderDetail\_VishalKumar

FROM Sales.SalesOrderDetail

WHERE OrderQty <= 10

or OrderQty >= 30

SELECT \* FROM SalesOrderDetail\_VishalKumar



Q21: ANS:

CREATE TABLE SalesDetails\_VishalKumar (CategoryID INT, SubcategoryID INT ,

Category VARCHAR (40), SubCategory VARCHAR (40), Total\_Revenue2003 INT, Total\_Revenue2004 INT)

--drop table SalesDetails\_VishalKumar

WITH data\_2003 (pc,psc,a,b,c) -- to store revenue generated in 2003

AS

(SELECT ppc.ProductCategoryID AS pc,

ppsc.ProductSubcategoryID AS psc,

ppc.Name AS a,

ppsc.Name AS b,

SUM(LineTotal) AS c

FROM Sales.SalesOrderHeader ssoh

JOIN Sales.SalesOrderDetail sso

ON ssoh.SalesOrderID=sso.SalesOrderID

JOIN Production.Product pp

ON sso.ProductID = pp.ProductID

JOIN Production.ProductSubcategory ppsc

ON pp.ProductSubcategoryID= ppsc.ProductSubcategoryID

JOIN Production.ProductCategory ppc

ON ppsc.ProductCategoryID= ppc.ProductCategoryID

WHERE ssoh.OrderDate like '%2003%'

GROUP BY ppc.ProductCategoryID, ppsc.ProductSubcategoryID ,ppc.Name,ppsc.Name),

data\_2004 (pc,psc,a,b,c) -- to store revenue generated in 2004

AS

(SELECT ppc.ProductCategoryID AS pc,

ppsc.ProductSubcategoryID AS psc,

ppc.Name AS a,

ppsc.Name AS b,

SUM (LineTotal) AS c

FROM Sales.SalesOrderHeader ssoh

JOIN Sales.SalesOrderDetail sso

ON ssoh.SalesOrderID=sso.SalesOrderID

JOIN Production.Product pp

ON sso.ProductID = pp.ProductID

JOIN Production.ProductSubcategory ppsc

ON pp.ProductSubcategoryID= ppsc.ProductSubcategoryID

JOIN Production.ProductCategory ppc

ON ppsc.ProductCategoryID= ppc.ProductCategoryID

WHERE ssoh.OrderDate like '%2004%'

GROUP BY ppc.ProductCategoryID, ppsc.ProductSubcategoryID ,ppc.Name,ppsc.Name)

INSERT INTO SalesDetails\_VishalKumar

SELECT data\_2003.pc,

data\_2003.psc,

data\_2003.a,

data\_2003.b,

data\_2003.c AS revenue1,

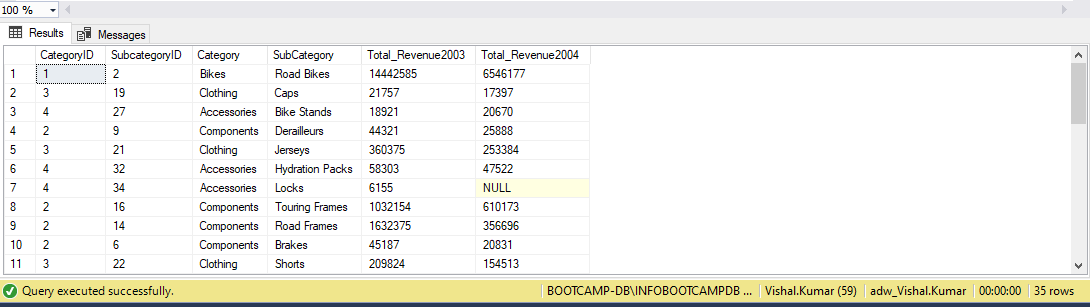
data\_2004.c AS revenue2

FROM data\_2004

FULL OUTER JOIN data\_2003

ON data\_2004.psc= data\_2003.psc

SELECT \* FROM SalesDetails\_VishalKumar



Q22A: ANS:

SELECT \*

INTO Employee\_VishalKumar

FROM HumanResources.Employee e

ALTER TABLE Employee\_VishalKumar

ADD Salary NUMERIC (38 , 4)

UPDATE a

SET a.Salary = SalesPerson.SalesYTD

FROM Employee\_VishalKumar a

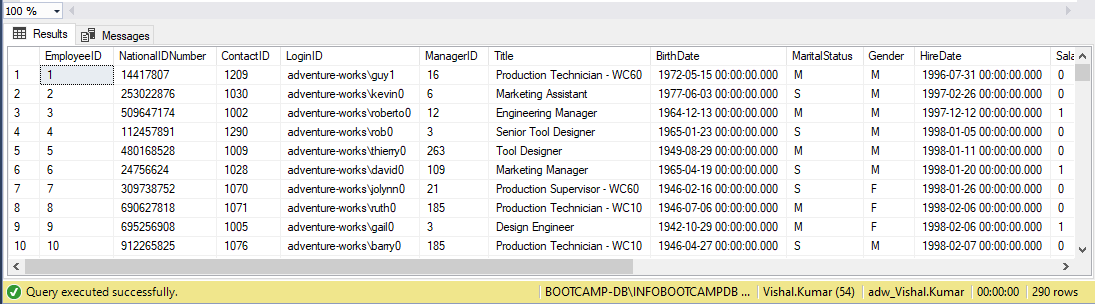
JOIN HumanResources.Employee Employee

ON a.EmployeeID = Employee.EmployeeID

JOIN Sales.SalesPerson SalesPerson

ON Employee.EmployeeID = SalesPerson.SalesPersonID

SELECT \* FROM Employee\_VishalKumar



Q22B: ANS:

UPDATE a

SET Salary = (SELECT CASE

WHEN Gender = 'M' THEN Salary \* 1.17

WHEN Gender = 'F' THEN Salary \* 1.20

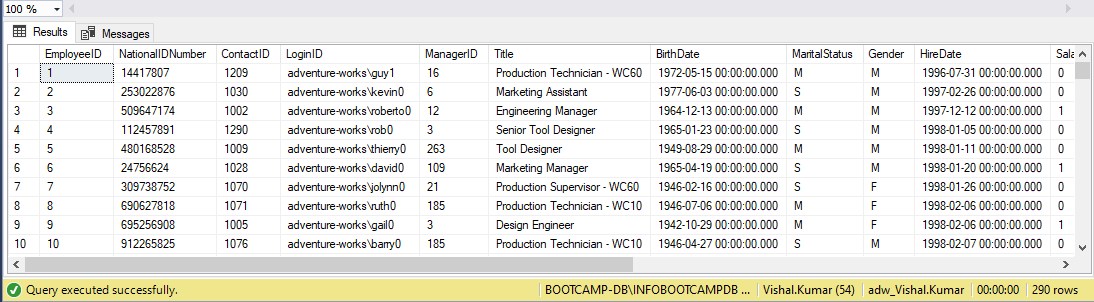
END

FROM Employee\_VishalKumar t

WHERE a.EmployeeID = t.EmployeeID )

FROM Employee\_VishalKumar a

SELECT \* FROM Employee\_VishalKumar



Q23: ANS:

SELECT \*

INTO CopyProduct

FROM Production.Product

Update CopyProduct

SET Name = REPLACE(

REPLACE(

REPLACE(

REPLACE(

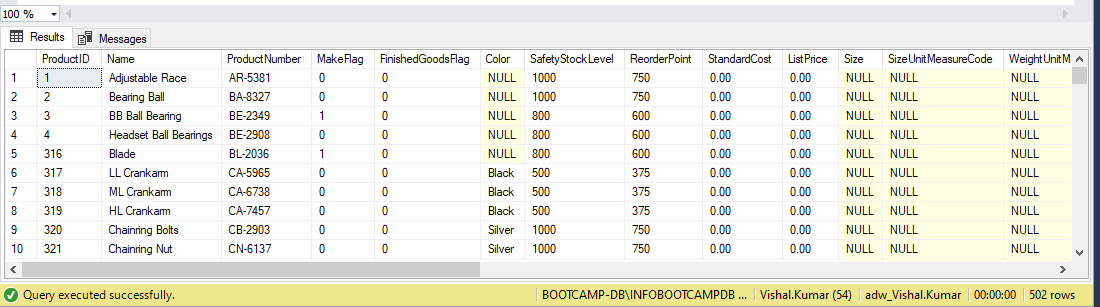
REPLACE(

REPLACE(

REPLACE(Name, '-', ''), ',', ''), '/', ''),'@',''),'$',''),'&',''),'\*','')

FROM CopyProduct

SELECT \* FROM CopyProduct



Q24: ANS:

SELECT \* INTO SalesOderHeader\_VishalKumar

FROM Sales.SalesOrderHeader

WITH Swak AS (

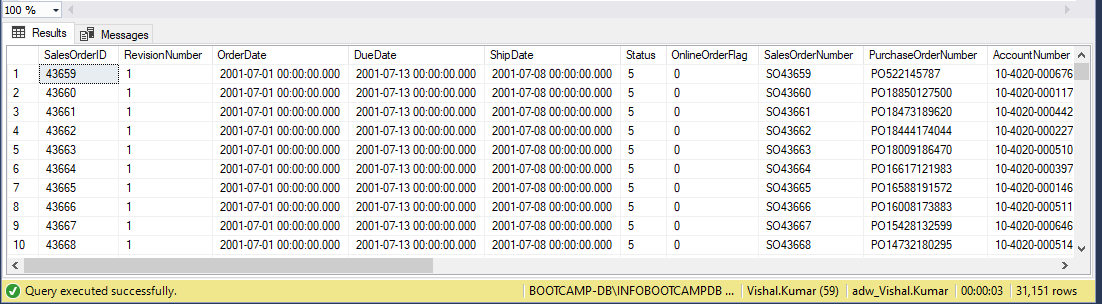
SELECT ROW\_NUMBER () OVER( ORDER BY SalesOrderID) AS RowNumber

FROM SalesOderHeader\_VishalKumar)

DELETE FROM Swak

WHERE RowNumber like '%00'

SELECT \* FROM SalesOderHeader\_VishalKumar



Q25: ANS:

SELECT \*

INTO SalesOderDetail\_VishalKumar

FROM Sales.SalesOrderDetail

;WITH CTE

AS (SELECT ROW\_NUMBER() OVER (

PARTITION BY ProductID

ORDER BY ProductID

) DUPLICATE

FROM SalesOderDetail\_VishalKumar)

DELETE FROM CTE

WHERE DUPLICATE > 1

SELECT \* FROM SalesOderDetail\_VishalKumar

