Q1A: ANS:

select SOD.SalesOrderID, PP.Name, PPS.Name, PC.Name, SOD.UnitPrice, SOD.UnitPriceDiscount, SOD.LineTotal

from Sales.SalesOrderDetail SOD

inner join Production.Product PP

on SOD.ProductID = PP.ProductID

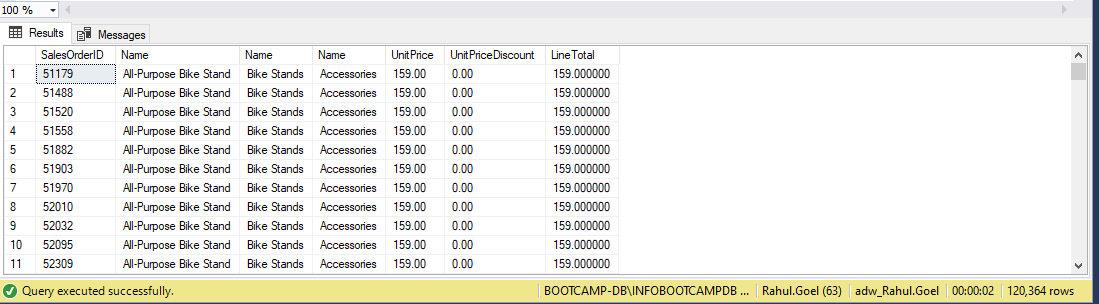
inner join Production.ProductSubcategory PPS

on PP.ProductSubcategoryID = PPS.ProductSubcategoryID

inner join Production.ProductCategory PC

on PC.ProductCategoryID = PPS.ProductCategoryID

order by PP.Name



Q1B: ANS:

select P.ProductID, P.Name, PS.ProductSubcategoryID, PS.Name, PC.ProductCategoryID, PC.Name

from Production.Product P

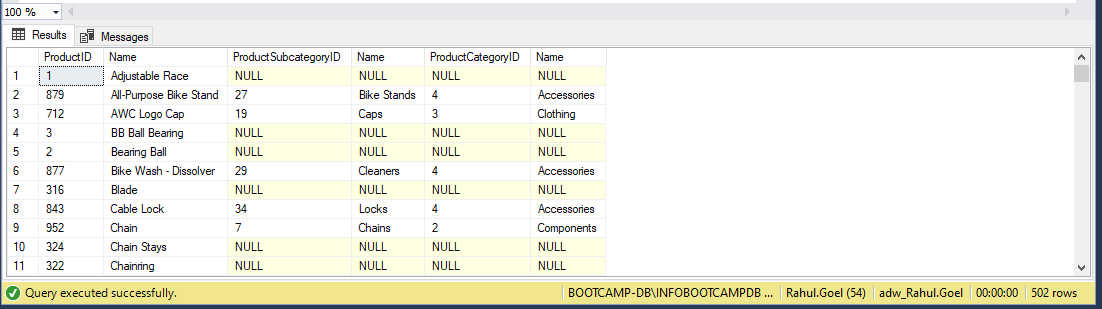
left join Production.ProductSubcategory PS

on P.ProductSubcategoryID = PS.ProductSubcategoryID

left join Production.ProductCategory PC

on PS.ProductCategoryID = PC.ProductCategoryID

order by P.Name



Null’s will occur in the result as we have all data from product table and only common data from category and subcategory table which does not make it mandatory that every product’s category and subcategory will be displayed.

Q2: ANS:

select PC.Name, SOH.OrderDate, sum(SOH.SubTotal)

from Sales.SalesOrderHeader SOH

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

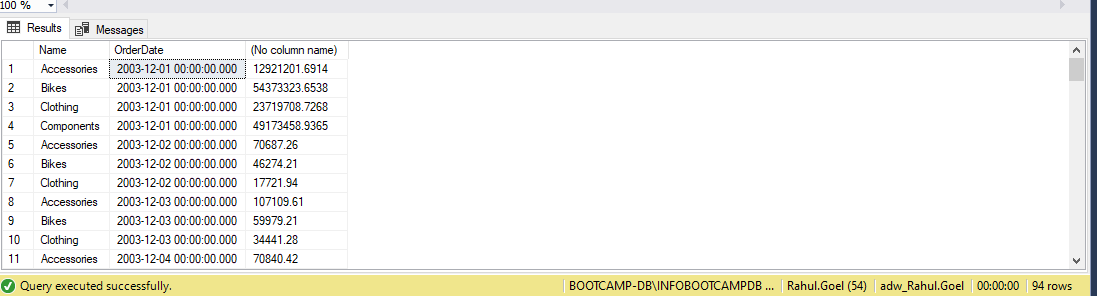
inner join Production.ProductCategory PC

on PC.ProductCategoryID = PS.ProductCategoryID

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

group by PC.Name, SOH.OrderDate

order by 2



Q3: ANS:

select SOH.SalesOrderID, SR.Name, SR.ReasonType, SOH.ShipDate, SOH.SubTotal, SOH.TaxAmt, SOH.Freight, SOH.TotalDue

from Sales.SalesOrderHeader SOH

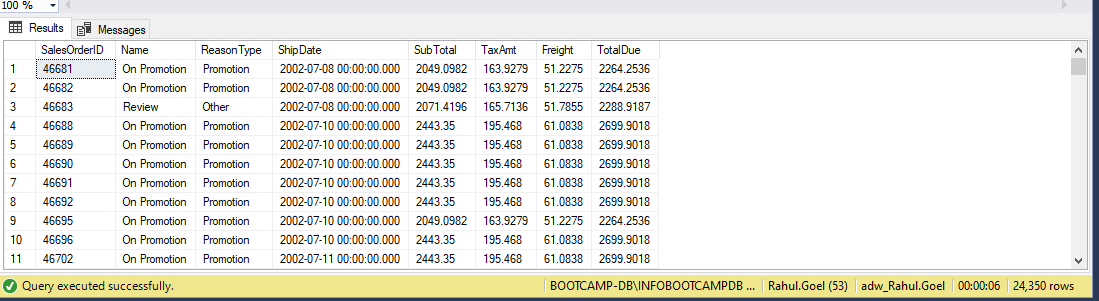
inner join Sales.SalesOrderHeaderSalesReason SOR

on SOH.SalesOrderID = SOR.SalesOrderID

inner join Sales.SalesReason SR

on SR.SalesReasonID = SOR.SalesReasonID

where SR.Name not in ('Manufacturer', 'Quality')



Q4: ANS:

select distinct P.Name

from Production.Product P

inner join Sales.SpecialOfferProduct SOP

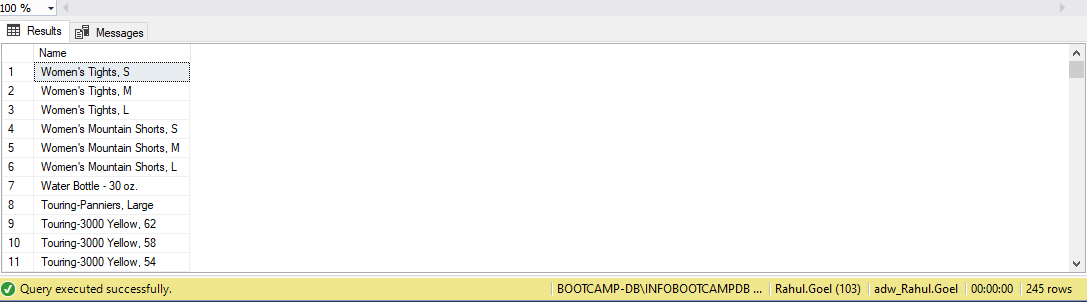
on P.ProductID = SOP.ProductID

inner join Sales.SpecialOffer SO

on SOP.SpecialOfferID = SO.SpecialOfferID

where SO.DiscountPct <= 0.45 and P.Name not like 'R%'

order by 1 desc

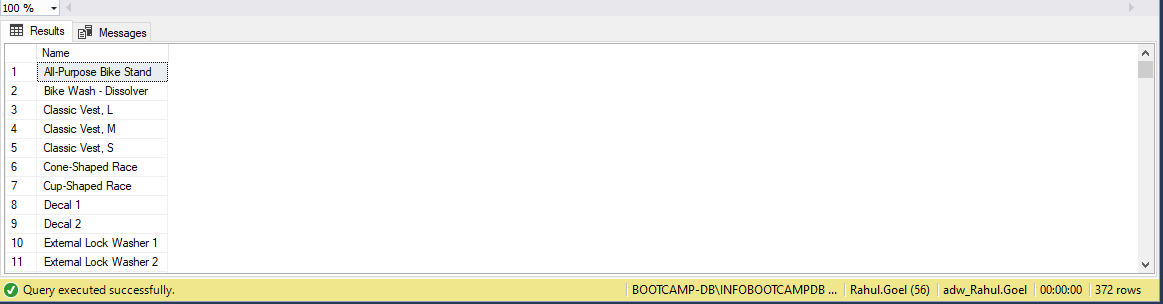


Q5: ANS:  
select Name

from Production.Product

where Name like '%[0-9]%' or Name like '%[-,/]%'

order by 1



Q6: ANS:

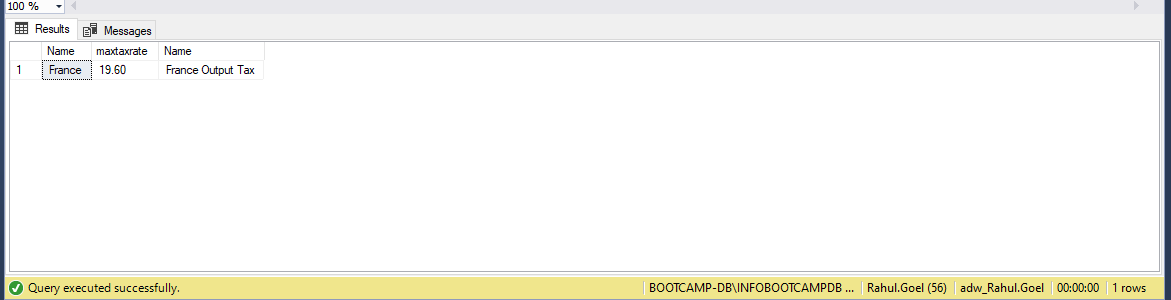
select top 1 SP.Name, ST.TaxRate as maxtaxrate, ST.Name

from Sales.SalesTaxRate ST

inner join Person.StateProvince SP

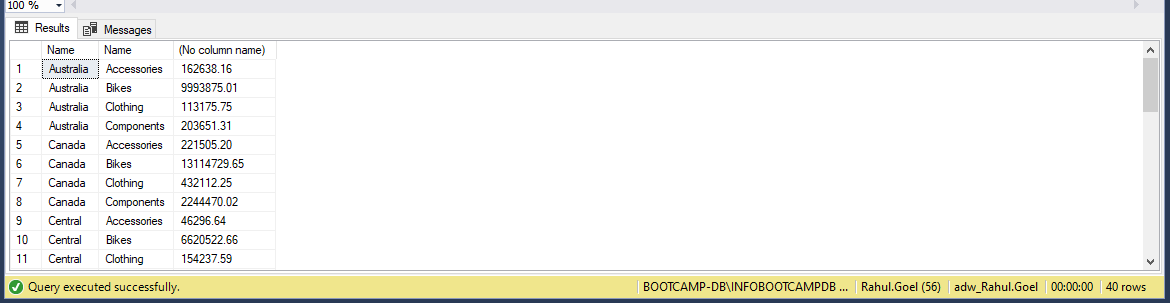
on ST.StateProvinceID = SP.StateProvinceID

order by 2 desc



Q7: ANS:

Select St.Name, Pc.Name, Cast(Sum(Sod.Linetotal) As Numeric(10,2))  
From Sales.Salesorderheader Soh  
Inner Join Sales.Salesterritory St  
On Soh.Territoryid = St.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 1,2



Q8: ANS:

SELECT

    CASE

        WHEN DATEDIFF(YEAR, HireDate, getdate()) < 15 THEN 'LESS than 15'

        WHEN DATEDIFF(YEAR, HireDate, getdate()) BETWEEN 15 AND 18 THEN 'BETWEEN 15 AND 18'

        WHEN DATEDIFF(YEAR, HireDate, getdate()) > 18 THEN 'Greater than 18'

    END AS Experience, SUM(SOH.SubTotal) as TotalSales ,COUNT(E.EmployeeID) AS 'Number of Employees'

FROM HumanResources.Employee E

LEFT JOIN Sales.SalesPerson SP

ON E.EmployeeID = SP.SalesPersonID

INNER JOIN Sales.SalesOrderHeader SOH

ON E.EmployeeID = SOH.SalesPersonID

where SOH.SalesPersonID = 275

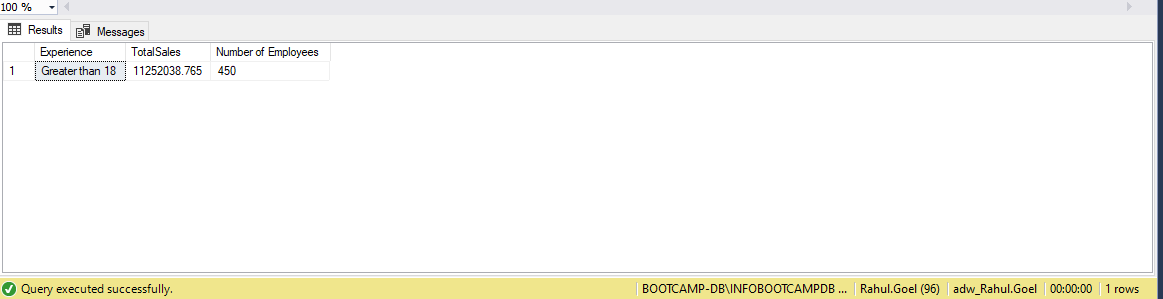
Group by    CASE

        WHEN DATEDIFF(YEAR, HireDate, getdate()) < 15 THEN 'LESS than 15'

        WHEN DATEDIFF(YEAR, HireDate, getdate()) BETWEEN 15 AND 18 THEN 'BETWEEN 15 AND 18'

        WHEN DATEDIFF(YEAR, HireDate, getdate()) > 18 THEN 'Greater than 18'

END



Q9: ANS:

select PC.Name, avg(SOD.OrderQty) as UnitSold

from Sales.SalesOrderHeader SOH

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

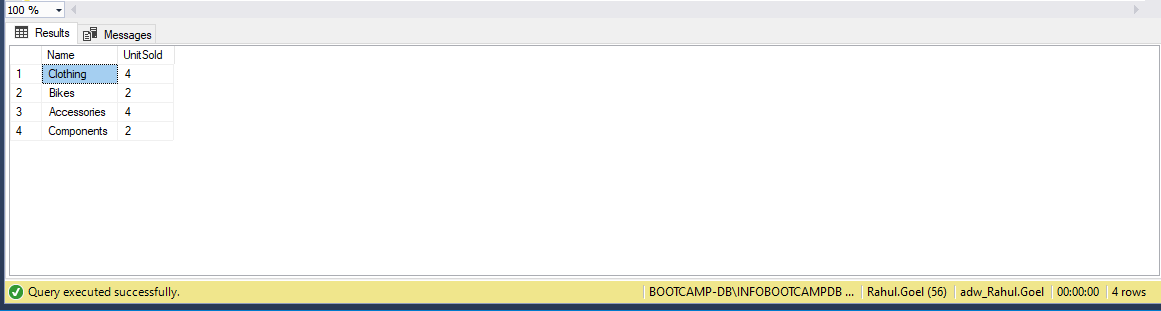
on P.ProductSubcategoryID = PS.ProductSubcategoryID

inner join Production.ProductCategory PC

on PC.ProductCategoryID = PS.ProductCategoryID

where year(SOH.OrderDate) = 2003 and month(SOH.OrderDate) = 5

group by PC.Name



Q10A: ANS:

WITH CLOTHES AS (

    SELECT YEAR(SOH.ShipDate) AS Year, MONTH(SOH.ShipDate) AS Month, SUM(SOD.OrderQty) AS CNT\_C

    FROM Sales.SalesOrderHeader SOH

    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

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

    GROUP BY YEAR(SOH.ShipDate), MONTH(SOH.ShipDate), PC.Name

),

BIKE AS (

    SELECT YEAR(SOH.ShipDate) AS Year, MONTH(SOH.ShipDate) AS Month, SUM(SOD.OrderQty) AS CNT\_B

    FROM Sales.SalesOrderHeader SOH

    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

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

    GROUP BY YEAR(SOH.ShipDate), MONTH(SOH.ShipDate), PC.Name

)

SELECT C.Year, C.Month, C.CNT\_C, B.CNT\_B

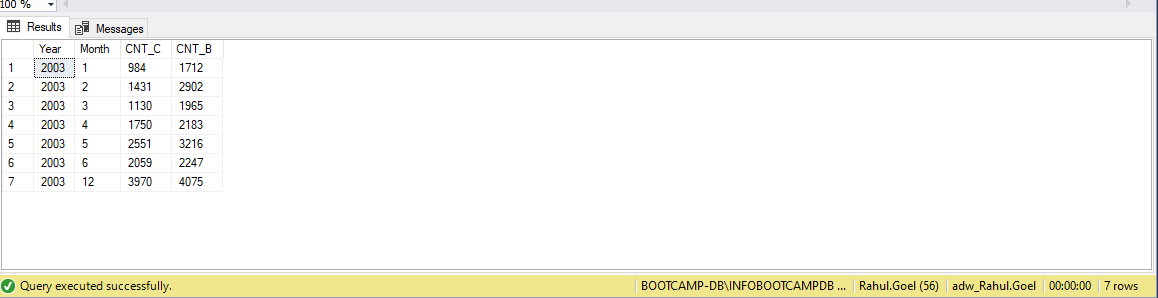
FROM CLOTHES C

INNER JOIN BIKE B

ON C.Month = B.Month

WHERE C.CNT\_C < B.CNT\_B

ORDER BY 2



Q10B: ANS:

SELECT LEFT(P.Name,10) AS Product\_Name\_Broken, PD.Description

FROM Production.Product P

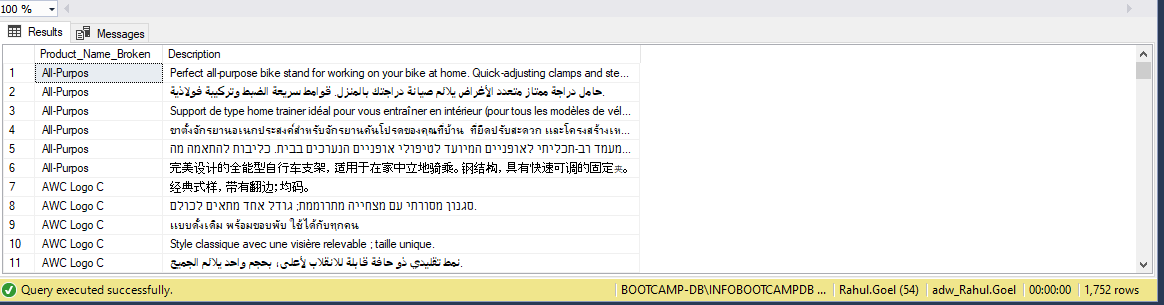
JOIN Production.ProductModelProductDescriptionCulture PM

ON P.ProductModelID = PM.ProductModelID

JOIN Production.ProductDescription PD

ON PM.ProductDescriptionID = PD.ProductDescriptionID

ORDER BY P.Name



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

FROM Production.Product P

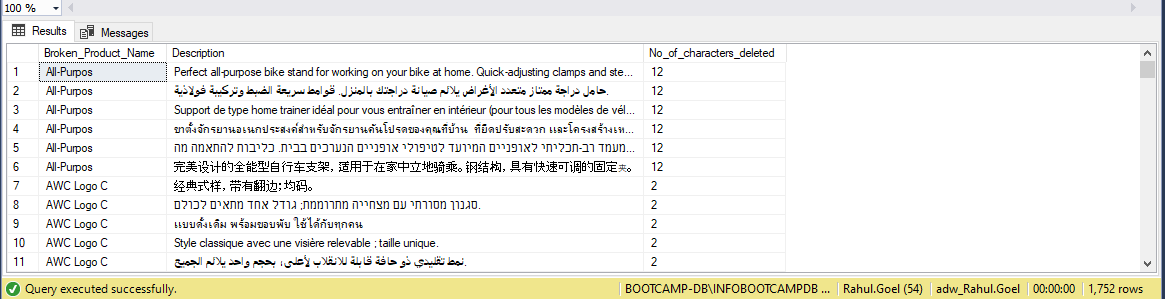
JOIN Production.ProductModelProductDescriptionCulture PM

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

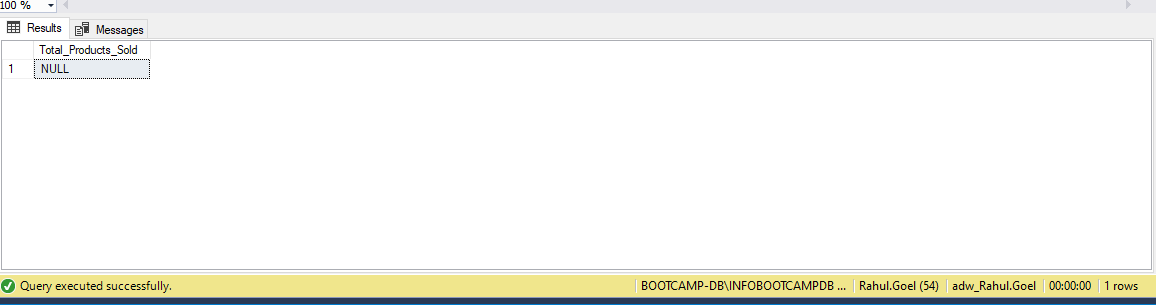
JOIN Sales.SalesOrderDetail SOD

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

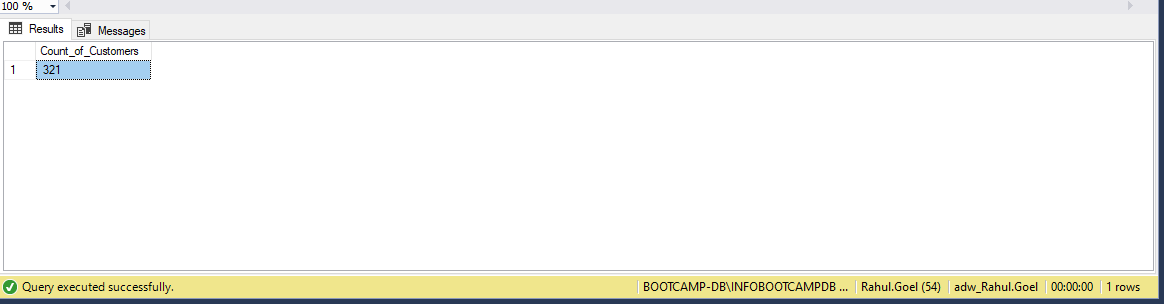
ON P.ProductSubcategoryID = PSC.ProductSubcategoryID

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:

--BIKE CTE

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 CTE

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 )

--MAIN QUERY

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"

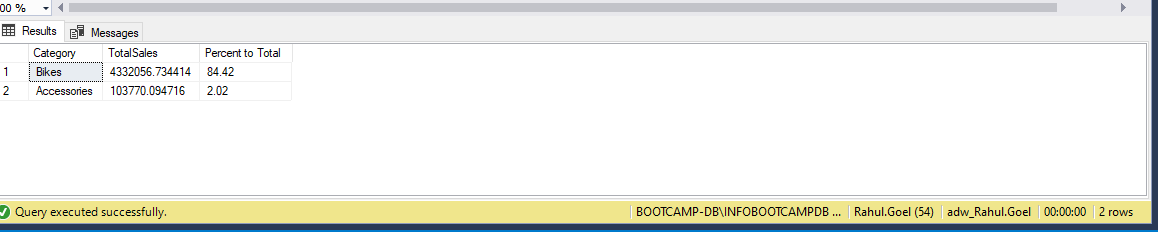
FROM Accessories a,Sales.SalesOrderHeader SOH

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 T1

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)/TT.TotalSale) \* 100) AS decimal(10,2)) AS Sales -- rounded to two decimal places

FROM Sales.SalesOrderDetail SOD

CROSS JOIN T1 TT

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

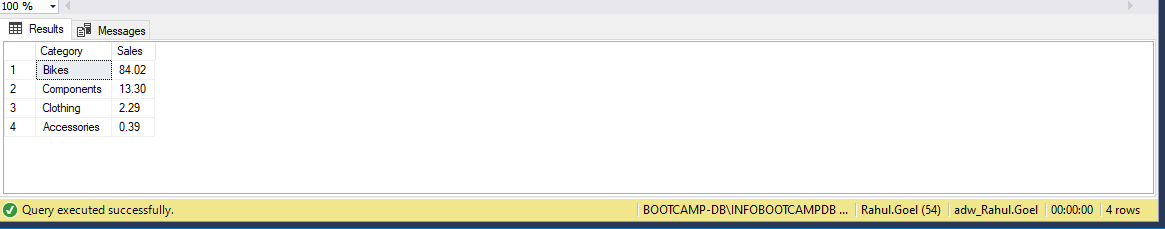
WHERE YEAR(SOH.OrderDate) = 2003

AND

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

GROUP BY PC.Name, TT.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

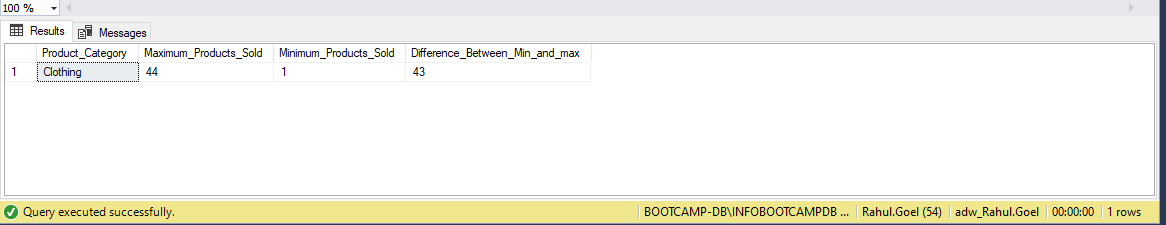
ON PSC.ProductCategoryID = PC.ProductCategoryID

WHERE YEAR(SOD.ModifiedDate) = 2003

group by PC.Name

) A --alias

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

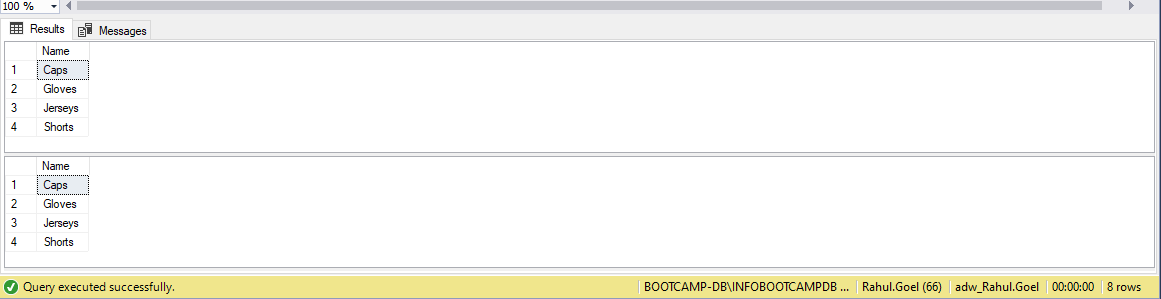
JOIN Production.ProductCategory PC

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

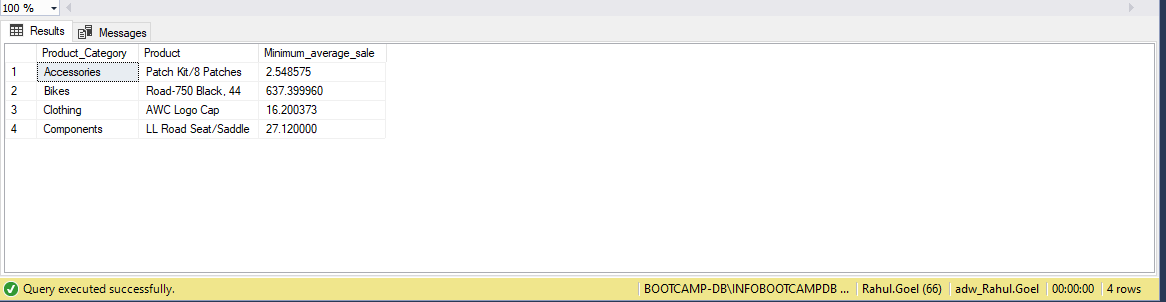
FROM ABC a1

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\_RahulGoel

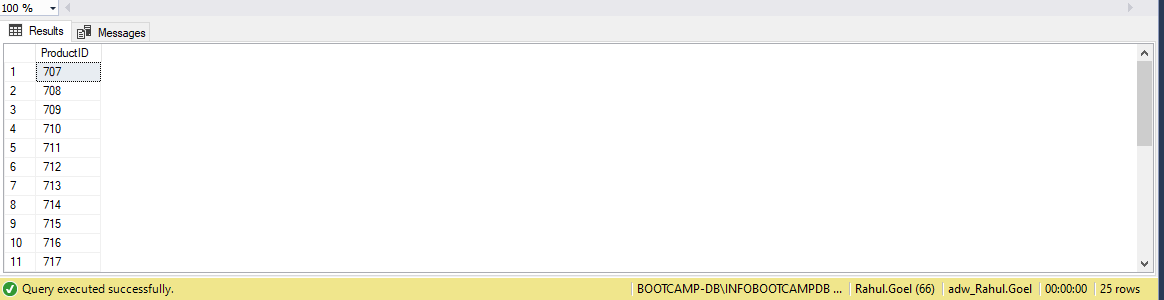
FROM Production.Product Product

JOIN Sales.SalesOrderDetail SalesOrderDetail

ON Product.ProductID = SalesOrderDetail.ProductID

GROUP BY SalesOrderDetail.ProductID

SELECT \* FROM CustomProductID\_RahulGoel



Q19B: ANS:

ALTER TABLE CustomProductID\_RahulGoel

ADD ProductName VARCHAR(50)

UPDATE R

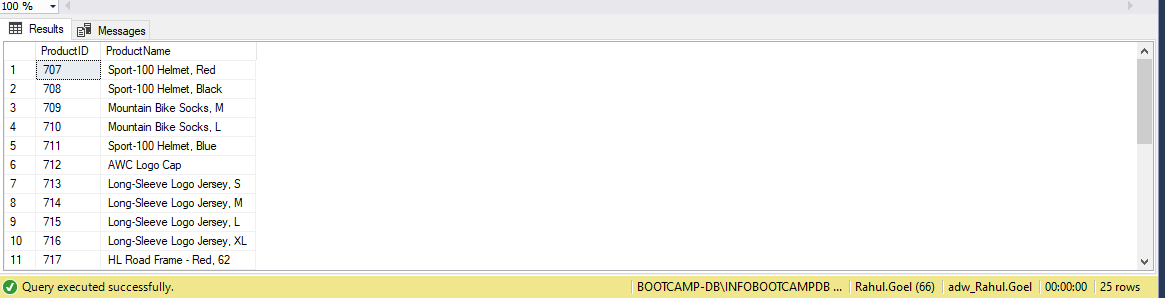
SET R.ProductName = Product.Name

FROM CustomProductID\_RahulGoel R

JOIN Production.Product Product

ON Product.ProductID = R.ProductID

SELECT \* FROM CustomProductID\_RahulGoel



Q20: ANS:

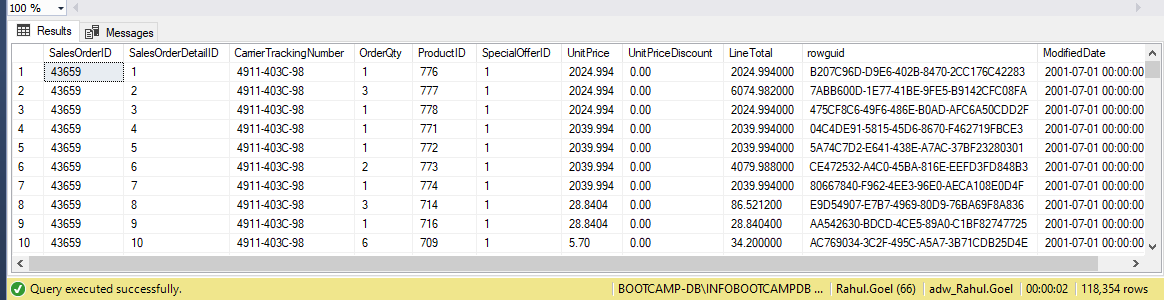
SELECT \* INTO SalesOrderDetail\_RahulGoel

FROM Sales.SalesOrderDetail

WHERE OrderQty <= 10

or OrderQty >= 30

SELECT \* FROM SalesOrderDetail\_RahulGoel



Q21: ANS:

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

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

WITH data\_2003 (pc,psc,a,b,c)

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\_RahulGoel

SELECT data\_2003.pc,

data\_2003.psc,

data\_2003.a,

data\_2003.b,

data\_2003.c AS revenue1,

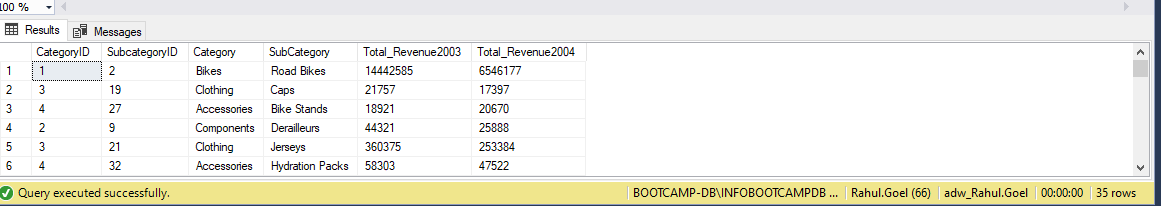
data\_2004.c AS revenue2

FROM data\_2004

FULL OUTER JOIN data\_2003

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

SELECT \* FROM SalesDetails\_RahulGoel



Q22A: ANS:

SELECT \*

INTO Employee\_RahulGoel

FROM HumanResources.Employee e

ALTER TABLE Employee\_RahulGoel

ADD Salary NUMERIC (38 , 4)

UPDATE R

SET R.Salary = SalesPerson.SalesYTD

FROM Employee\_RahulGoel R

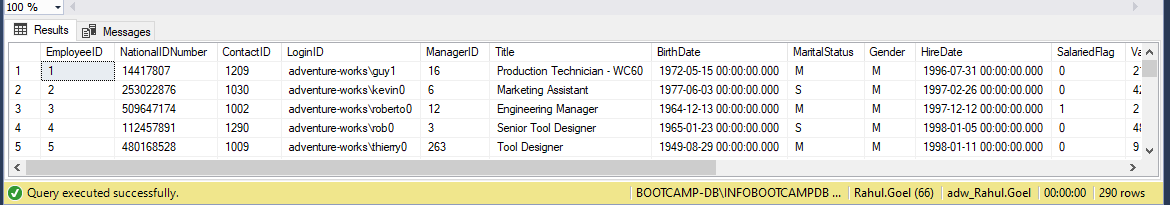
JOIN HumanResources.Employee Employee

ON R.EmployeeID = Employee.EmployeeID

JOIN Sales.SalesPerson SalesPerson

ON Employee.EmployeeID = SalesPerson.SalesPersonID

SELECT \* FROM Employee\_RahulGoel



Q22B: ANS:

UPDATE r

SET Salary = (SELECT CASE

WHEN Gender = 'M' THEN Salary \* 1.17

WHEN Gender = 'F' THEN Salary \* 1.20

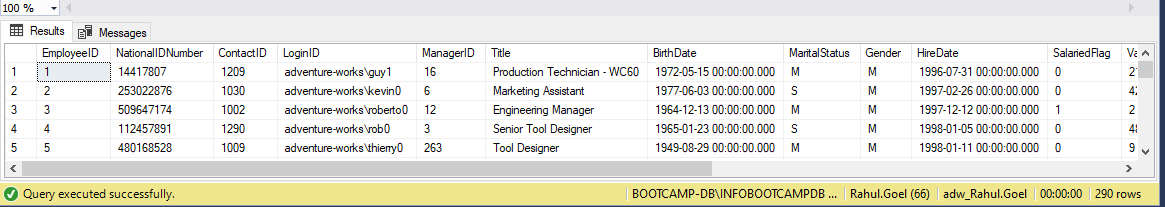
END

FROM Employee\_RahulGoel rg

WHERE r.EmployeeID = rg.EmployeeID )

FROM Employee\_RahulGoel r

SELECT \* FROM Employee\_RahulGoel



Q23: ANS:  
SELECT \*

INTO CopyProduct

FROM Production.Product

Update CopyProduct

SET Name = REPLACE(

REPLACE(

REPLACE(

REPLACE(

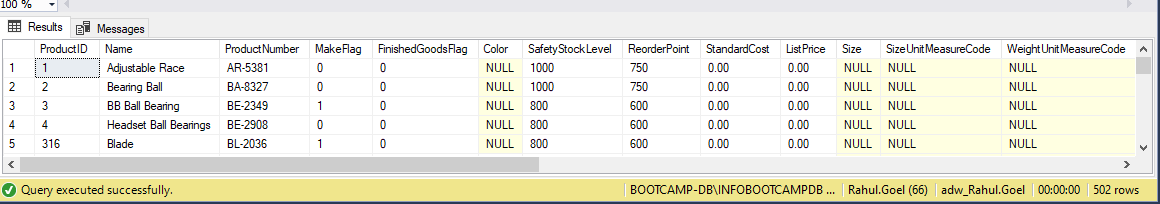
REPLACE(

REPLACE(

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

FROM CopyProduct

SELECT \* FROM CopyProduct



Q24: ANS:

SELECT \* INTO SalesOderHeader\_RahulGoel

FROM Sales.SalesOrderHeader

WITH rg AS (

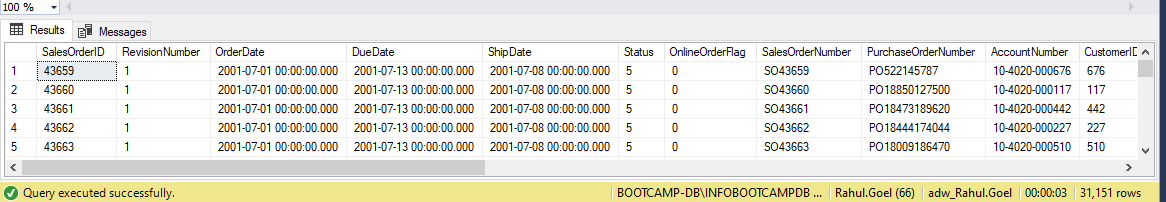
SELECT ROW\_NUMBER () OVER( ORDER BY SalesOrderID) AS RowNumber

FROM SalesOderHeader\_RahulGoel)

DELETE FROM rg

WHERE RowNumber like '%00'

SELECT \* FROM SalesOderHeader\_RahulGoel



Q25: ANS:

SELECT \*

INTO SalesOderDetail\_RahulGoel

FROM Sales.SalesOrderDetail

WITH CTE

AS (SELECT ROW\_NUMBER() OVER (

PARTITION BY ProductID

ORDER BY ProductID

) DUPLICATE

FROM SalesOderDetail\_RahulGoel)

DELETE FROM CTE

WHERE DUPLICATE > 1

SELECT \* FROM SalesOderDetail\_RahulGoel

