

Assignment 3

1.

```
select count(TotalProductCost) as NumberOfRows_TotalProductCost,  
ROUND(sum(TotalProductCost),2) as sum_TotalProductCost,  
min(TotalProductCost) as min_TotalProductCost,  
max(TotalProductCost) as max_TotalProductCost,  
ROUND(avg(TotalProductCost),2) as AVG_TotalProductCost,  
ROUND(STDEV(TotalProductCost),2) as StandardDev_TotalProductCost  
from [dbo].[FactInternetSales]  
where ShipDateKey between '20200101' and '20201231'
```

100 %

Results Messages

	NumberOfRows_TotalProductCost	sum_TotalProductCost	min_TotalProductCost	max_TotalProductCost	AVG_TotalProductCost	StandardDev_TotalProductCost
1	962	1858243	413	2171	1931	543.8

2.

```
select count(TotalProductCost) as NumberOfRows_TotalProductCost,  
ROUND(sum(TotalProductCost),2) as sum_TotalProductCost,  
min(TotalProductCost) as min_TotalProductCost,  
max(TotalProductCost) as max_TotalProductCost,  
ROUND(avg(TotalProductCost),2) as AVG_TotalProductCost,  
ROUND(STDEV(TotalProductCost),2) as StandardDev_TotalProductCost  
from [dbo].[FactInternetSales]  
where ShipDate between '2020-01-01' and '2020-12-31'
```

100 %

Results Messages

	NumberOfRows_TotalProductCost	sum_TotalProductCost	min_TotalProductCost	max_TotalProductCost	AVG_TotalProductCost	StandardDev_TotalProductCost
1	962	1858243	413	2171	1931	543.8

3.

```
select count(TotalProductCost) as NumberOfRows_TotalProductCost,  
ROUND(sum(TotalProductCost),2) as sum_TotalProductCost,  
min(TotalProductCost) as min_TotalProductCost,  
max(TotalProductCost) as max_TotalProductCost,  
ROUND(avg(TotalProductCost),2) as AVG_TotalProductCost,  
ROUND(STDEV(TotalProductCost),2) as StandardDev_TotalProductCost  
from [dbo].[FactInternetSales] f  
JOIN [dbo].[DimDate] AS d ON f.ShipDateKey = d.DateKey  
WHERE d.FiscalYear = '2020'
```

100 %

Results Messages

	NumberOfRows_TotalProductCost	sum_TotalProductCost	min_TotalProductCost	max_TotalProductCost	AVG_TotalProductCost	StandardDev_TotalProductCost
1	2159	4134297	413	2171	1914	560.11

4.

```

select d.spanishmonthname,d.yearMonth,
count(TotalProductCost) as NumberOfRows_TotalProductCost,
ROUND(sum(TotalProductCost),2) as sum_TotalProductCost
from [dbo].[FactInternetSales] f
JOIN [dbo].[DimDate] AS d ON f.ShipDateKey = d.DateKey
where FiscalYear = 2021
group by d.spanishmonthname, d.yearMonth
order by d.yearMonth

```

100 %

Results Messages

	spanishmonthname	yearMonth	NumberOfRows_TotalProductCost	sum_TotalProductCost
1	Julio	202107	246	330127
2	Agosto	202108	266	310923
3	Septiembre	202109	221	237665
4	Octubre	202110	227	239175
5	Noviembre	202111	182	192729
6	Diciembre	202112	326	326249
7	Enero	202201	263	272977
8	Febrero	202202	258	272364
9	Marzo	202203	271	278404
10	Abril	202204	277	284026
11	Mayo	202205	331	318303
12	Junio	202206	330	325607

5.

SQLQuery2.sql - 14...RGONET\kdt25 (55)* SQLQuery1.sql - 14...RGONET\kdt25 (56)*

```

select d.CurrencyKey, d.CurrencyName,
ISNULL(count(TotalProductCost),0) as NumberOfRows_TotalProductCost,
ISNULL(sum(TotalProductCost),0) as sum_TotalProductCost
from [dbo].[DimCurrency] d
left outer join [dbo].[FactInternetSales] f
on d.CurrencyKey=f.CurrencyKey
group by d.CurrencyKey, d.CurrencyName

```

100 %

Results Messages

	CurrencyKey	CurrencyName	NumberOfRows_TotalProductCost	sum_TotalProductCost
1	1	Afghani	0	0
2	2	Algerian Dinar	0	0
3	3	Argentine Peso	0	0
4	4	Amenian Dram	0	0
5	5	Aruban Guilder	0	0
6	6	Australian Dollar	12988	5371114
7	7	Azerbaijani Manat	0	0
8	8	Bahamian Dollar	0	0
9	9	Bahraini Dinar	0	0
10	10	Baht	0	0
11	11	Balboa	0	0
12	12	Barbados Dollar	0	0
13	13	Belgian Franc	0	0
14	14	Bolivar	0	0
15	15	Boliviano	0	0
16	16	Brazilian Real	0	0
17	17	Brunei Dollar	0	0
18	18	Bulgarian Lev	0	0
19	19	Canadian Dollar	7135	1045210
20	20	Cedi	0	0
21	21	CFA Franc BCEAO	0	0
22	22	Chilean Peso	0	0
23	23	Colombian Peso	0	0
24	24	Costa Rican Colon	0	0
25	25	Croatian Kuna	0	0
26	26	Cyprus Pound	0	0
27	27	Czech Koruna	0	0

Query executed successfully. 143.88.64.56 (11.0 SP4) ARGONET\kdt25 (55) AdventureWorksDW 00:00:00 105 rows

6.

```
select d.EnglishCountryRegionName, c.EnglishOccupation,  
count(TotalProductCost) as NumberOfRows_TotalProductCost,  
sum(TotalProductCost) as sum_TotalProductCost  
from [dbo].[FactInternetSales] f  
inner join [dbo].[DimCustomer] c  
on f.[SalesTerritoryKey]=c.[GeographyKey]  
inner join [dbo].[DimGeography] d  
on c.[GeographyKey]=d.[GeographyKey]  
group by EnglishCountryRegionName, EnglishOccupation  
order by EnglishCountryRegionName, EnglishOccupation
```

100 %

Results Messages

	EnglishCountryRegionName	EnglishOccupation	NumberOfRows_TotalProductCost	sum_TotalProductCost
1	Australia	Clerical	549694	161725332
2	Australia	Management	1035273	308508553
3	Australia	Manual	304545	87983188
4	Australia	Professional	1545403	452636761
5	Australia	Skilled Manual	976826	280656421

7.

```
select
ISNULL(a.shipdatekey,0) ShipDate,
ISNULL(Sum_TotalProductCost,0) Sum_TotalProductCost,
ISNULL(Count_TotalProductCost,0) Count_TotalProductCost
from (select ShipDateKey,sum(TotalProductCost) Sum_TotalProductCost from [dbo].[FactInternetSales]
group by ShipDateKey
having sum(TotalProductCost) > 45000) a

full outer join (select ShipDateKey, count(TotalproductCost) as Count_TotalProductCost from [dbo].[FactInternetSales]
group by ShipDateKey
having count(TotalProductCost) > 200) b

on a.shipdatekey = b.shipdatekey
group by a.ShipDateKey,Sum_TotalProductCost,Count_TotalProductCost
order by a.shipdatekey
```

100 %

Results Messages

	ShipDate	Sum_TotalProductCost	Count_TotalProductCost
1	0	0	201
2	0	0	207
3	0	0	209
4	0	0	218
5	0	0	222
6	0	0	246
7	20221214	46452	241
8	20230227	47413	237
9	20230228	50582	308
10	20230504	48432	0
11	20230508	48745	220
12	20230527	46142	0
13	20230613	48503	216
14	20230614	51756	227
15	20230618	45649	238
16	20230621	56815	263
17	20230628	49468	219
18	20230702	45641	0
19	20230705	46360	220

8.

```
--Bar Chart Query
--Internet Sales by Fiscal Year for Bikes
--Display the fiscal year on the horizontal axis
--Display total product cost on the vertical axis

select d.fiscalyear as [Fiscal Year],
round(sum(isnull(totalproductcost,0)),0) as TotalProductCost
from dbo.factinternetsales s
inner join dbo.dimdate d on s.orderdatekey=d.datekey
inner join dbo.DimProduct p on s.ProductKey=p.ProductKey
inner join dbo.DimProductSubcategory sc on p.ProductSubcategoryKey=sc.ProductSubcategoryKey
where sc.ProductCategoryKey=1
group by d.FiscalYear
order by d.FiscalYear
```

100 %

Results Messages

	Fiscal Year	TotalProductCost
1	2020	4228386
2	2021	3368494
3	2022	9217098

9.

SQLQuery1.sql - 14...RGONET\kdt25 (57))*

```
select sc.englishproductsubcategoryname as Product_SubCategory,
sum(isnull(totalproductcost,0)) as Sum_Productcost,
round(sum(isnull(totalproductcost,0))/sum(sum(isnull(totalproductcost,0))) over (), 2) as PercentagePerBike
from dbo.dimproductsubcategory sc
inner join
(select p.productssubcategorykey, totalproductcost, d.CalendarYear
from dbo.FactInternetSales s1
inner join dbo.dimdate d on s1.orderdatekey=d.DateKey
inner join dbo.DimProduct p on s1.productkey=p.productkey
inner join dbo.DimProductSubcategory sc on p.productssubcategorykey=sc.productssubcategorykey
and sc.productcategorykey=1
and d.fiscalyear=2020)
as s on sc.ProductSubcategoryKey=s.productssubcategorykey
group by sc.EnglishProductSubcategoryName
order by sc.EnglishProductSubcategoryName
```

100 %

Results Messages

	Product_SubCategory	Sum_Productcost	PercentagePerBike
1	Mountain Bikes	754244.74	0.18
2	Road Bikes	3474676.64	0.82

