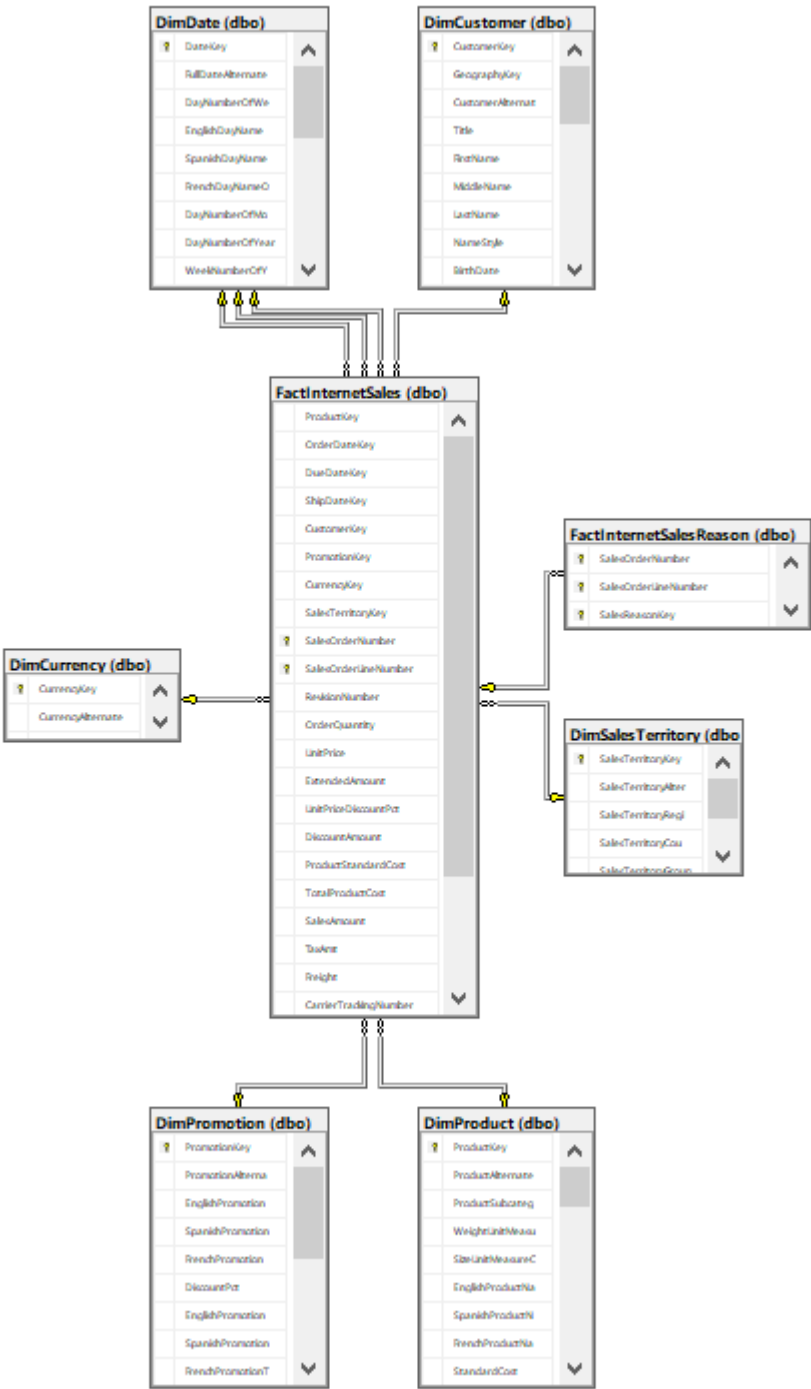


Assignment 2

1.



2.

SQLQuery1.sql - 14...RGONET\kdt25 (55))* SSE-ORACLE.Adven...rksDW - Diagram_0*

```
use [AdventureWorksDW]
go

select
  suser_sname() as LoginName,
  getdate() as CurrentDateTime,
  count(*) as DataWarehouseRecordCount
from [AdventureWorksDW].[dbo].[FactInternetSales]
```

100 %

Results Messages

	LoginName	CurrentDateTime	DataWarehouseRecordCount
1	ARGONET\kdt25	2023-07-06 14:40:20.470	60398

3.

```
select
  suser_sname() as LoginName,
  getdate() as CurrentDateTime,
  count(*) as DataWarehouseRecordCount
from [AdventureWorks].[Sales].[SalesOrderDetail] as d
inner join [AdventureWorks].[Sales].[SalesOrderHeader] as h
on d.SalesOrderID=h.SalesOrderID
where h.OnlineOrderFlag=1
```

100 %

Results			
Messages			
	LoginName	Current DateTime	Data Warehouse Record Count
1	ARGONET\kdt25	2023-07-06 14:43:37.693	60398

4.

```
select
  suser_sname() as LoginName,
  getdate() as CurrentDateTime,
  ProductCategoryKey, EnglishProductCategoryName from dbo.DimProductCategory
```

30 %

ResultsMessages

	LoginName	CurrentDateTime	ProductCategoryKey	EnglishProductCategoryName
1	ARGONET\kdt25	2023-07-06 14:57:00.677	1	Bikes
2	ARGONET\kdt25	2023-07-06 14:57:00.677	2	Components
3	ARGONET\kdt25	2023-07-06 14:57:00.677	3	Clothing
4	ARGONET\kdt25	2023-07-06 14:57:00.677	4	Accessories

5.

```
select
  suser_sname() as LoginName,
  getdate() as CurrentDateTime,
  ProductCategoryKey, ProductSubcategoryKey, EnglishProductSubCategoryName from dbo.DimProductSubcategory
where ProductCategoryKey=4
order by EnglishProductSubCategoryName
```

100 %

Results Messages

	LoginName	CurrentDateTime	ProductCategoryKey	ProductSubcategoryKey	EnglishProductSubCategoryName
1	ARGONET\kdt25	2023-07-06 14:59:24.823	4	26	Bike Racks
2	ARGONET\kdt25	2023-07-06 14:59:24.823	4	27	Bike Stands
3	ARGONET\kdt25	2023-07-06 14:59:24.823	4	28	Bottles and Cages
4	ARGONET\kdt25	2023-07-06 14:59:24.823	4	29	Cleaners
5	ARGONET\kdt25	2023-07-06 14:59:24.823	4	30	Fenders
6	ARGONET\kdt25	2023-07-06 14:59:24.823	4	31	Helmets
7	ARGONET\kdt25	2023-07-06 14:59:24.823	4	32	Hydration Packs
8	ARGONET\kdt25	2023-07-06 14:59:24.823	4	33	Lights
9	ARGONET\kdt25	2023-07-06 14:59:24.823	4	34	Locks
10	ARGONET\kdt25	2023-07-06 14:59:24.823	4	35	Panniers
11	ARGONET\kdt25	2023-07-06 14:59:24.823	4	36	Pumps
12	ARGONET\kdt25	2023-07-06 14:59:24.823	4	37	Tires and Tubes

6.

```
select
  suser_sname() as LoginName,
  getdate() as CurrentDateTime,
  ProductCategoryKey, ProductSubcategoryKey, EnglishProductSubCategoryName
from dbo.DimProductSubcategory
where lower(EnglishProductSubcategoryName) like '%helmet%'
order by EnglishProductSubCategoryName
```

100 %

Results Messages

	LoginName	CurrentDateTime	ProductCategoryKey	ProductSubcategoryKey	EnglishProductSubCategoryName
1	ARGONET\kdt25	2023-07-06 15:00:42.760	4	31	Helmets

7.

```
select distinct  
suser_sname() as LoginName,  
getdate() as CurrentDateTime,  
c.EnglishProductSubCategoryName as SubCategory, p.EnglishProductName as productName,  
p.ProductAlternateKey  
from dbo.DimProduct p  
inner join dbo.DimProductSubcategory c  
on p.ProductSubcategoryKey=c.ProductSubcategoryKey  
and c.ProductSubcategoryKey=31  
order by EnglishProductName
```

100 %

Results Messages

	LoginName	CurrentDateTime	SubCategory	productName	ProductAlternateKey
1	ARGONET\kdt25	2023-07-06 15:08:09.090	Helmets	Sport-100 Helmet, Black	HL-U509
2	ARGONET\kdt25	2023-07-06 15:08:09.090	Helmets	Sport-100 Helmet, Blue	HL-U509-B
3	ARGONET\kdt25	2023-07-06 15:08:09.090	Helmets	Sport-100 Helmet, Red	HL-U509-R

8.

```
select
  suser_sname() as LoginName,
  getdate() as CurrentDateTime,
  ProductKey,
  ProductSubcategoryKey as SubcategoryKey,
  ProductAlternateKey,
  EnglishProductName,
  cast(StartDate as Date) as StartDate,
  cast(EndDate as Date) as EndDate,
  [Status]
from dbo.DimProduct where ProductSubcategorykey=31
```

100 %									
Results Messages									
	LoginName	CurrentDateTime	ProductKey	SubcategoryKey	ProductAlternateKey	EnglishProductName	StartDate	EndDate	Status
1	ARGONET\kdt25	2023-07-06 15:17:08.293	212	31	HL-U509-R	Sport-100 Helmet, Red	2020-07-01	2017-06-30	NULL
2	ARGONET\kdt25	2023-07-06 15:17:08.293	213	31	HL-U509-R	Sport-100 Helmet, Red	2021-07-01	2018-06-30	NULL
3	ARGONET\kdt25	2023-07-06 15:17:08.293	214	31	HL-U509-R	Sport-100 Helmet, Red	2022-07-01	NULL	Current
4	ARGONET\kdt25	2023-07-06 15:17:08.293	215	31	HL-U509	Sport-100 Helmet, Black	2020-07-01	2017-06-30	NULL
5	ARGONET\kdt25	2023-07-06 15:17:08.293	216	31	HL-U509	Sport-100 Helmet, Black	2021-07-01	2018-06-30	NULL
6	ARGONET\kdt25	2023-07-06 15:17:08.293	217	31	HL-U509	Sport-100 Helmet, Black	2022-07-01	NULL	Current
7	ARGONET\kdt25	2023-07-06 15:17:08.293	220	31	HL-U509-B	Sport-100 Helmet, Blue	2020-07-01	2017-06-30	NULL
8	ARGONET\kdt25	2023-07-06 15:17:08.293	221	31	HL-U509-B	Sport-100 Helmet, Blue	2021-07-01	2018-06-30	NULL
9	ARGONET\kdt25	2023-07-06 15:17:08.293	222	31	HL-U509-B	Sport-100 Helmet, Blue	2022-07-01	NULL	Current

9. The columns that have different values for each row are ProductKey, StandardCost, ListPrice, DealerPrice, Startdate, Enddate for the black helmet.

10. The columns that have different values for each row are ProductKey, StandardCost, ListPrice, DealerPrice, Startdate, Enddate for the blue helmet.

11. The columns that have different values for each row are ProductKey, StandardCost, ListPrice, DealerPrice, Startdate, Enddate for the red helmet.

12.

```
select s.ProductKey,  
count(*) as RecordCount,  
round(sum(salesAmount),2) as SalesAmount  
from FactInternetSales s  
inner join dbo.dimproduct p  
on s.productkey=p.productkey  
and p.ProductAlternateKey = 'HL-U509'  
group by s.Productkey  
order by s.ProductKey
```

100 %

Results Messages

	ProductKey	RecordCount	SalesAmount
1	217	2085	72954.15

13.

```
select  
count(*) as RecordCount,  
round(cast(sum([linetotal]) as numeric (36,2)),2) as SalesAmount  
from adventureworks.sales.salesorderdetail as d  
inner join adventureworks.sales.salesorderheader as h on d.salesorderid=h.SalesOrderID  
inner join adventureworks.production.product as p on d.productid=p.productid  
and [ProductNumber] = 'HL-U509'  
where h.onlineorderflag=1
```

100 %

Results Messages

	RecordCount	SalesAmount
1	2085	72954.15

14.

```
select s.productkey,  
count(*) as RecordCount,  
round(sum(salesAmount),2) as SalesAmount  
from FactresellerSales s  
inner join dbo.dimproduct p  
on s.productkey=p.productkey  
and p.ProductAlternateKey = 'HL-U509'  
group by s.Productkey  
order by s.ProductKey
```

100 %

Results Messages

	productkey	RecordCount	SalesAmount
1	215	201	12098.08
2	216	340	31866.83
3	217	381	43950.46

The data warehouse might have a problem with the product keys for the black helmet because it only shows one key instead of all of them. But the sales amounts in the data warehouse match the source system, so it seems accurate. The fact table for resellers has all the product keys for the black helmet, which means the dimension tables are working well and connecting the products correctly.

15.

```
select s.productkey,  
count(*) as RecordCount,  
round(sum(salesAmount),2) as SalesAmount  
from FactInternetSales s  
inner join dbo.dimproduct p  
on s.productkey=p.productkey  
and p.ProductAlternateKey = 'HL-U509-B'  
group by s.Productkey  
order by s.ProductKey
```

100 %

Results Messages

	productkey	RecordCount	SalesAmount
1	222	2125	74353.75

16.

```
select  
count(*) as RecordCount,  
round(cast(sum([linetotal]) as numeric (36,2)),2) as SalesAmount  
from adventureworks.sales.salesorderdetail as d  
inner join adventureworks.sales.salesorderheader as h on d.salesorderid=h.SalesOrderID  
inner join adventureworks.production.product as p on d.productid=p.productid  
and [ProductNumber] = 'HL-U509-B'  
where h.onlineorderflag=1
```

100 %

Results Messages

	RecordCount	SalesAmount
1	2125	74353.75

17.

```
select s.productkey,  
count(*) as RecordCount,  
round(sum(salesAmount),2) as SalesAmount  
from FactresellerSales s  
inner join dbo.dimproduct p  
on s.productkey=p.productkey  
and p.ProductAlternateKey = 'HL-U509-B'  
group by s.Productkey  
order by s.ProductKey
```

100 %

Results Messages

	productkey	RecordCount	SalesAmount
1	220	215	13331.58
2	221	372	33795.26
3	222	378	43926.02

The data warehouse might have a problem with the product keys for the blue helmet because it only shows one key instead of all of them. But the sales amounts in the data warehouse match the source system, so it seems accurate. The fact table for resellers has all the product keys for the blue helmet, which means the dimension tables are working well and connecting the products correctly.

18.

```
select s.productkey,  
count(*) as RecordCount,  
round(sum(salesAmount),2) as SalesAmount  
from FactInternetSales s  
inner join dbo.dimproduct p  
on s.productkey=p.productkey  
and p.ProductAlternateKey = 'HL-U509-R'  
group by s.Productkey  
order by s.ProductKey
```

100 %

Results Messages

	productkey	RecordCount	SalesAmount
1	214	2230	78027.70

19.

```
select  
count(*) as RecordCount,  
round(cast(sum([linetotal]) as numeric (36,2)),2) as SalesAmount  
from adventureworks.sales.salesorderdetail as d  
inner join adventureworks.sales.salesorderheader as h on d.salesorderid=h.SalesOrderID  
inner join adventureworks.production.product as p on d.productid=p.productid  
and [ProductNumber] = 'HL-U509-R'  
where h.onlineorderflag=1
```

100 %

Results Messages

	RecordCount	SalesAmount
1	2230	78027.70

20.

```
select s.productkey,  
count(*) as RecordCount,  
round(sum(salesAmount),2) as SalesAmount  
from FactresellerSales s  
inner join dbo.dimproduct p  
on s.productkey=p.productkey  
and p.ProductAlternateKey = 'HL-U509-R'  
group by s.Productkey  
order by s.ProductKey
```

100 %

Results Messages

	productkey	RecordCount	SalesAmount
1	212	200	11385.19
2	213	317	29031.35
3	214	336	39328.16

The data warehouse might have a problem with the product keys for the red helmet because it only shows one key instead of all of them. But the sales amounts in the data warehouse match the source system, so it seems accurate. The fact table for resellers has all the product keys for the red helmet, which means the dimension tables are working well and connecting the products correctly.