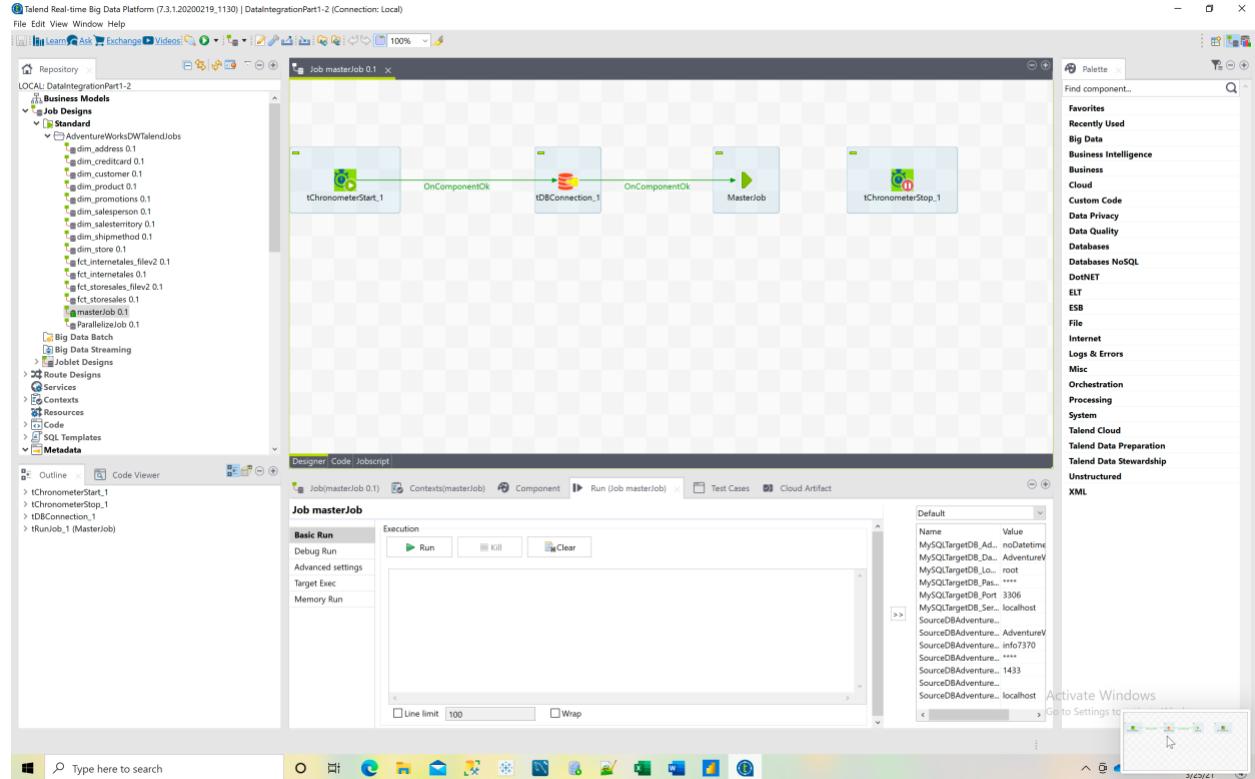
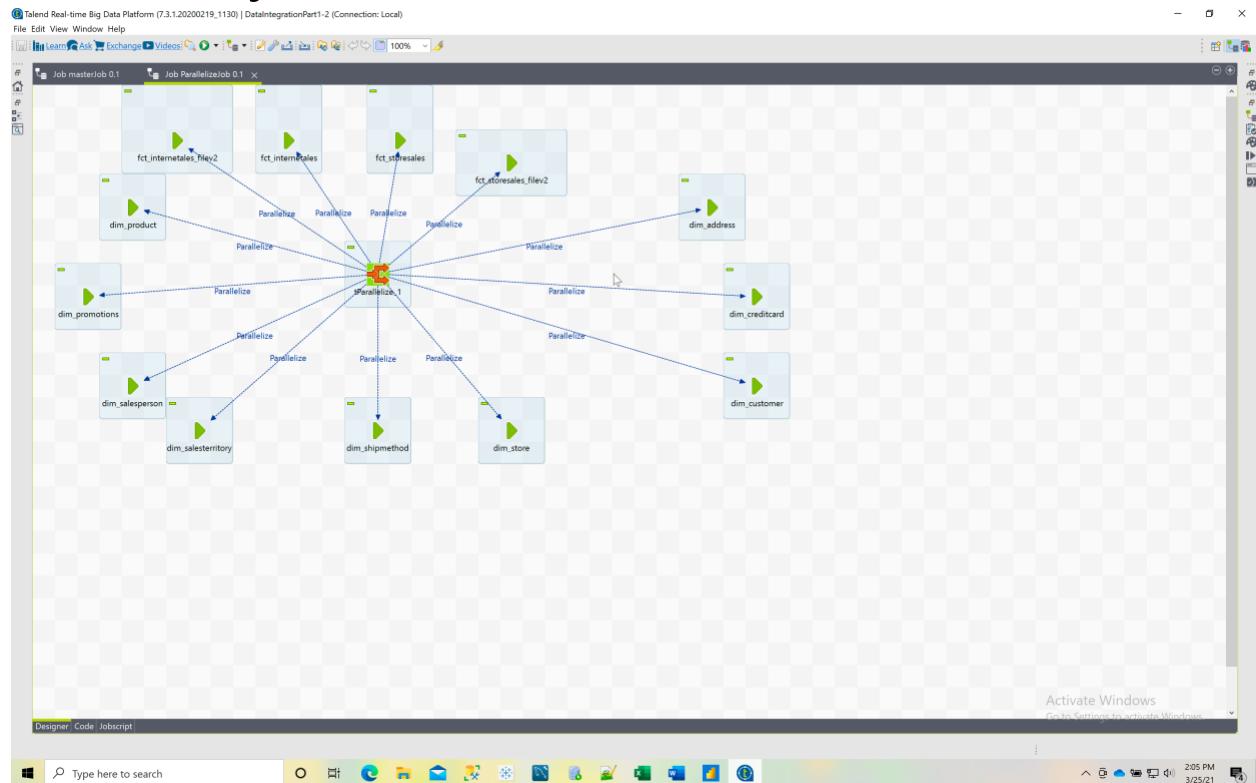


Talend Screen Shots

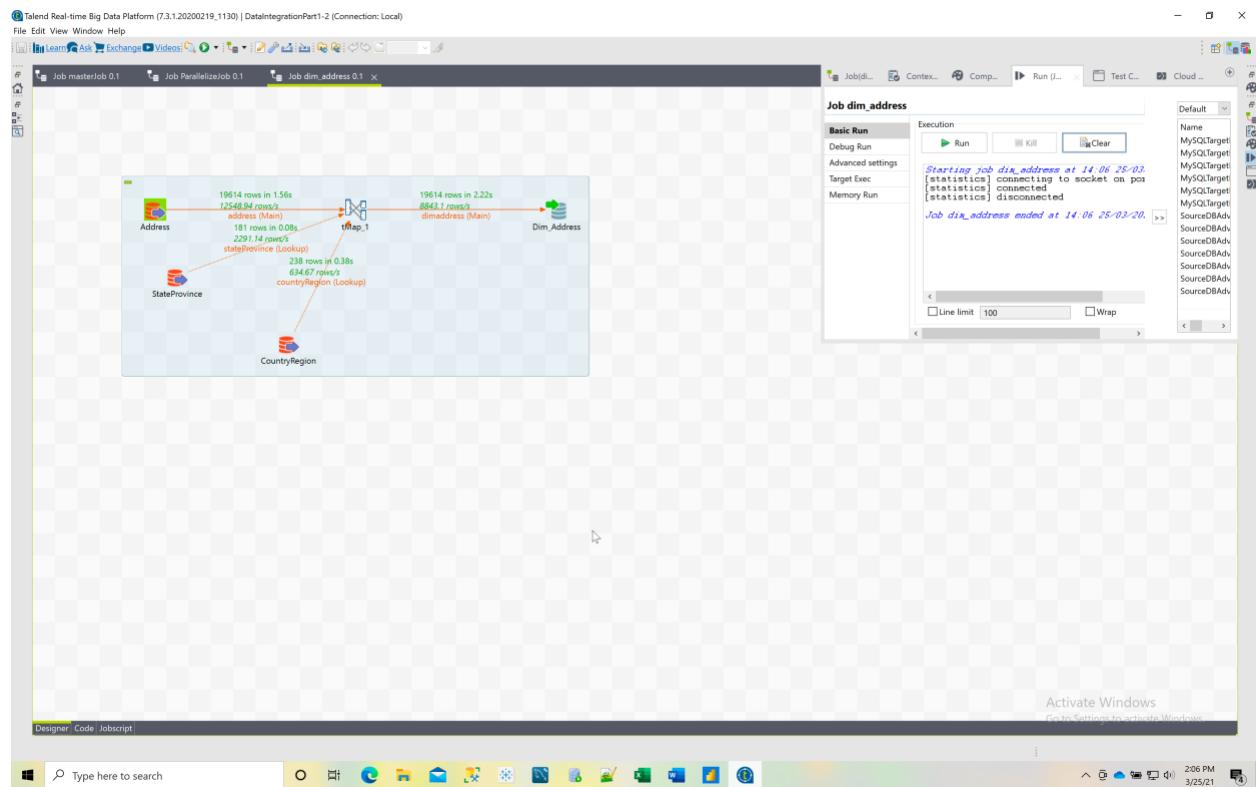
Master Job:



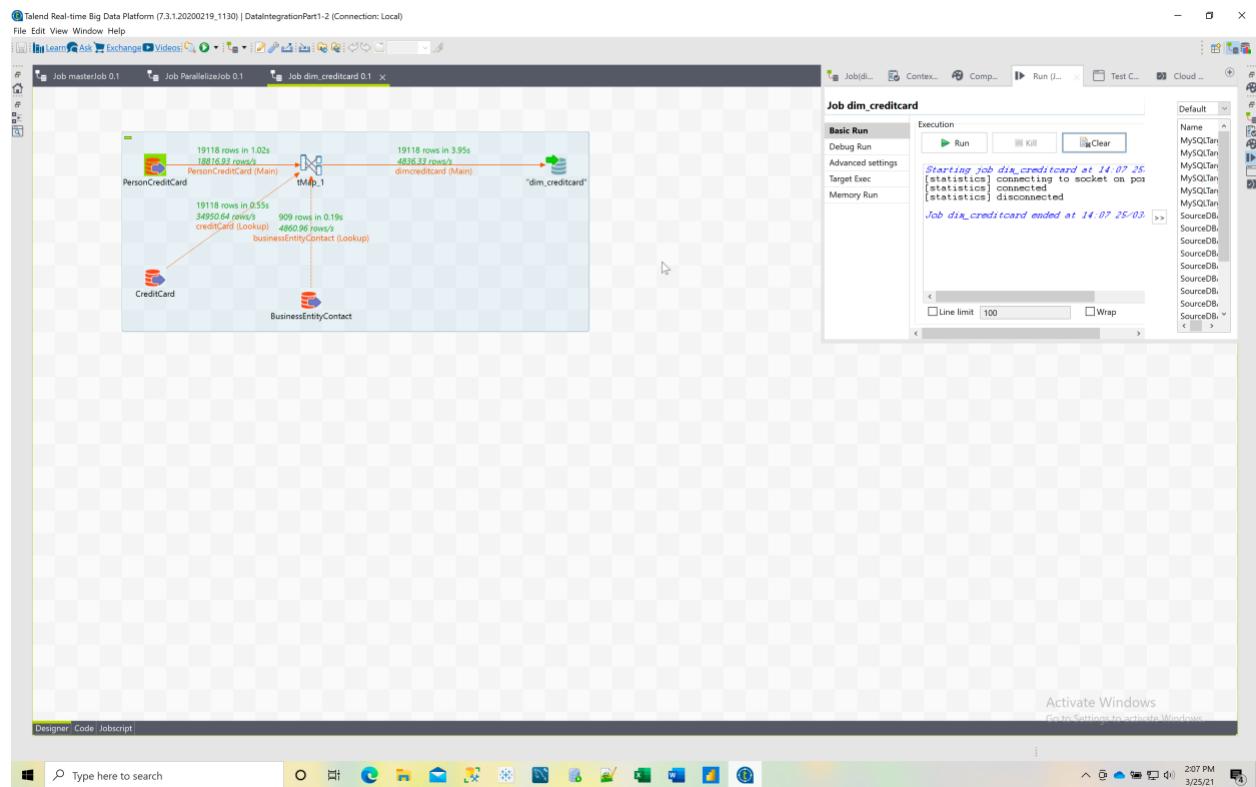
Parallelize job:



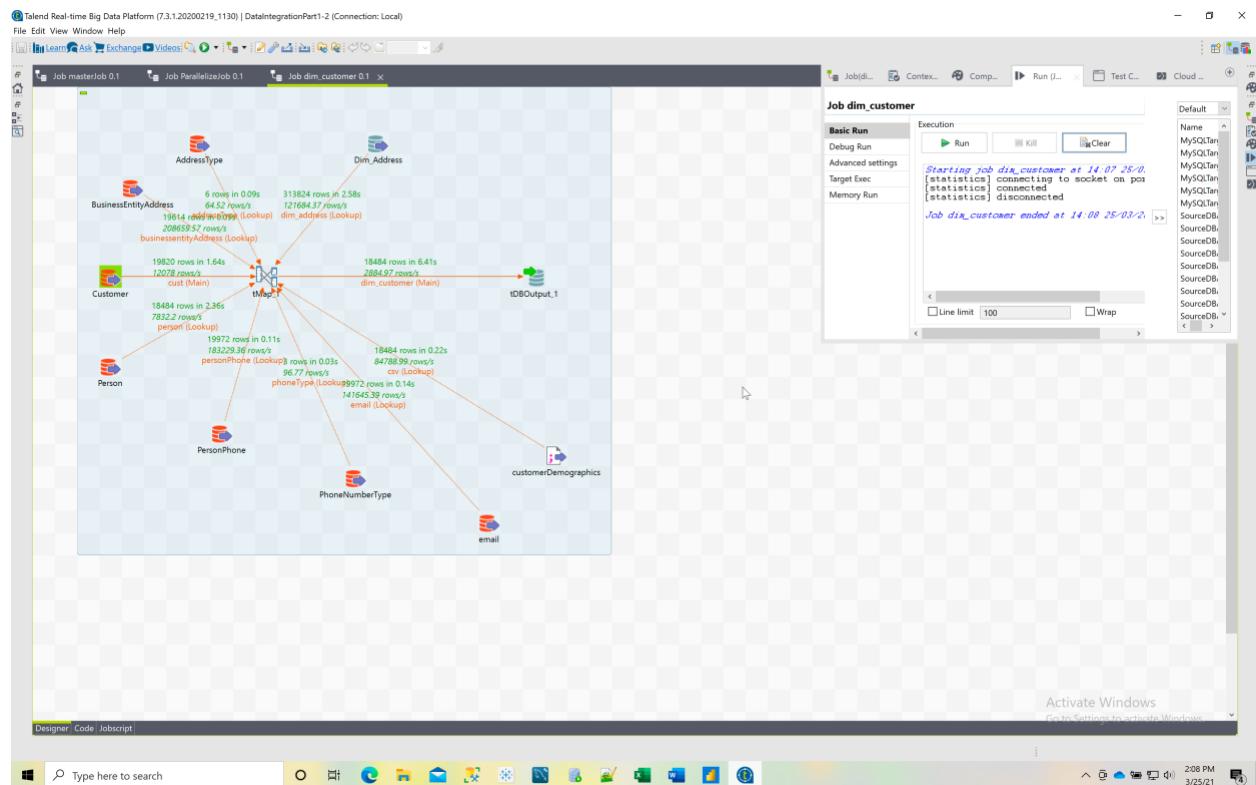
DimAddress:



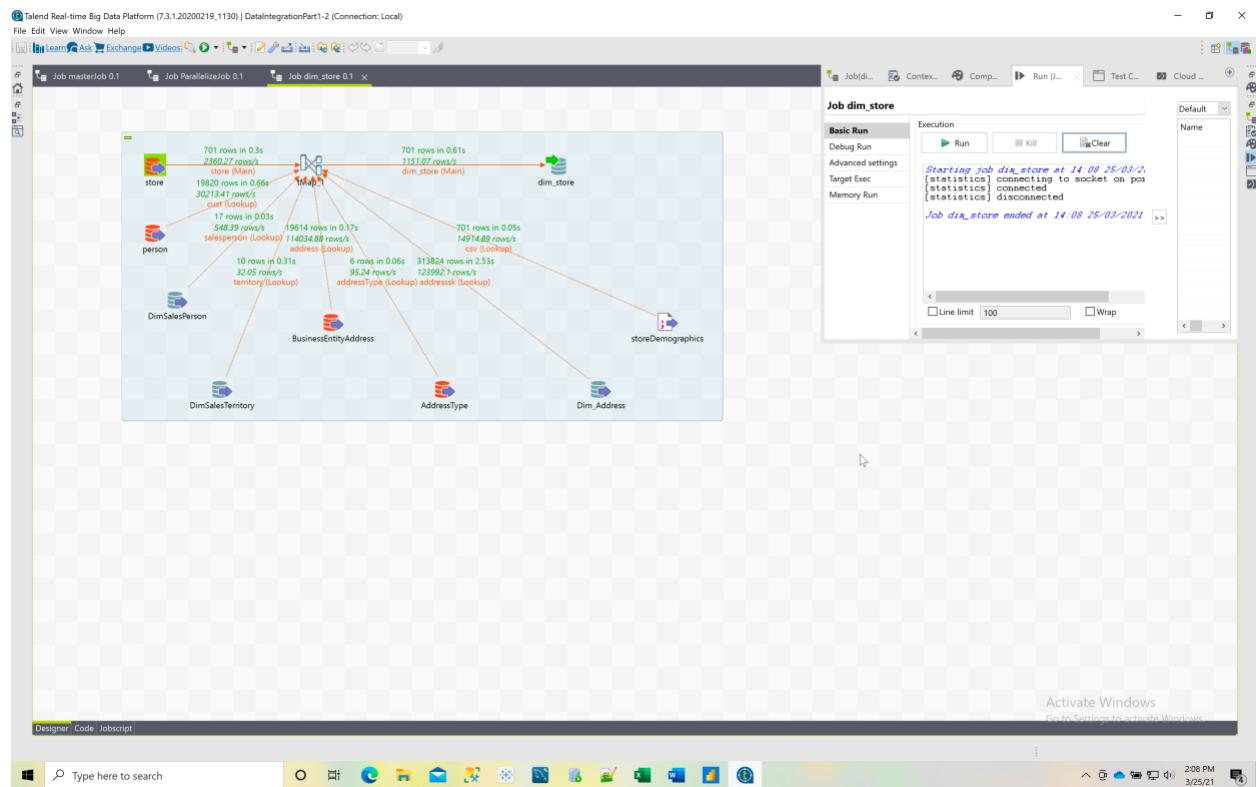
DimCredit:



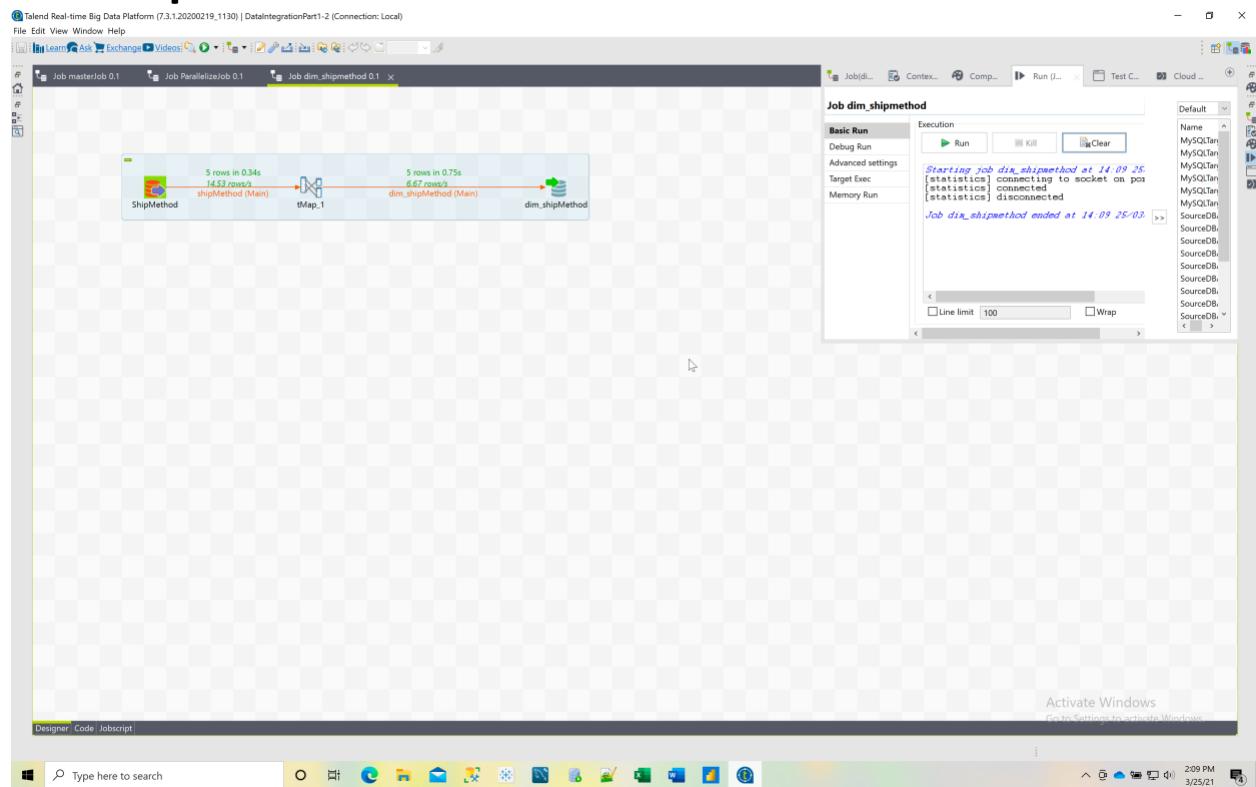
DimCustomer:



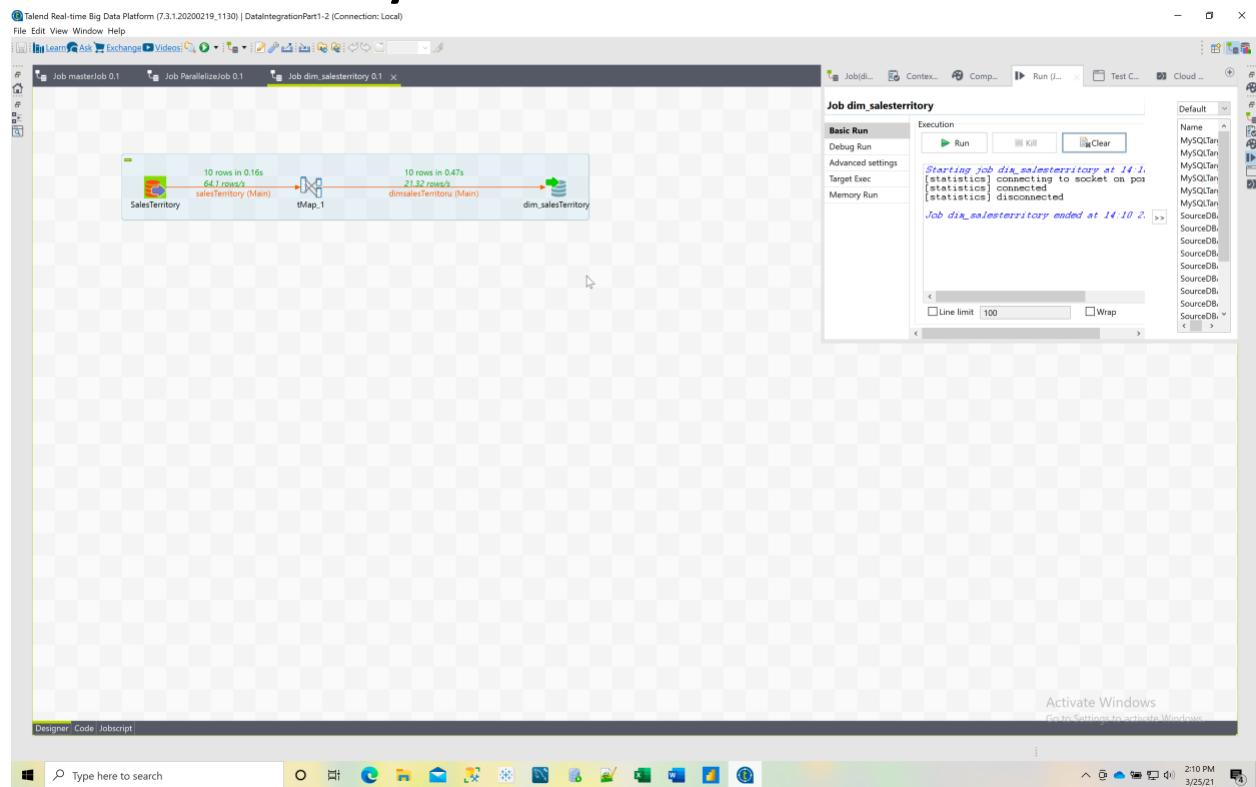
DimStore:



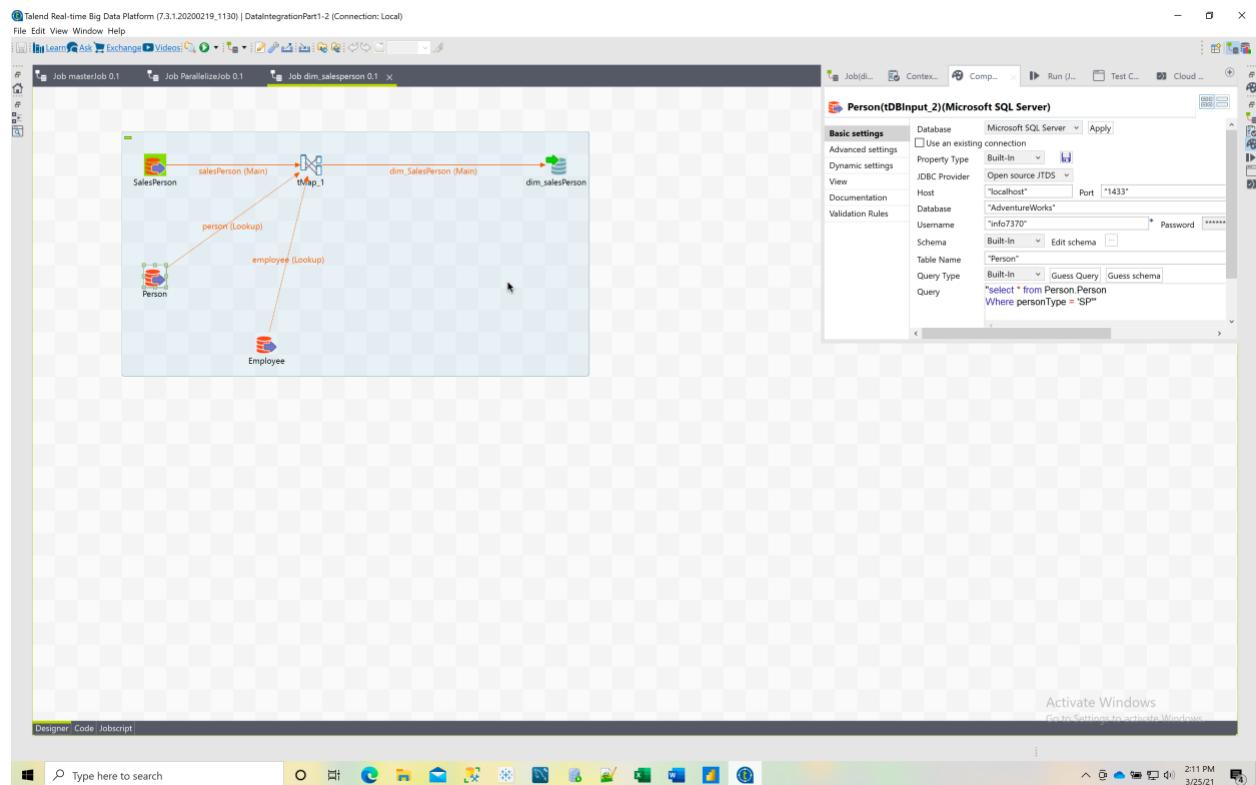
DimShipMethod:

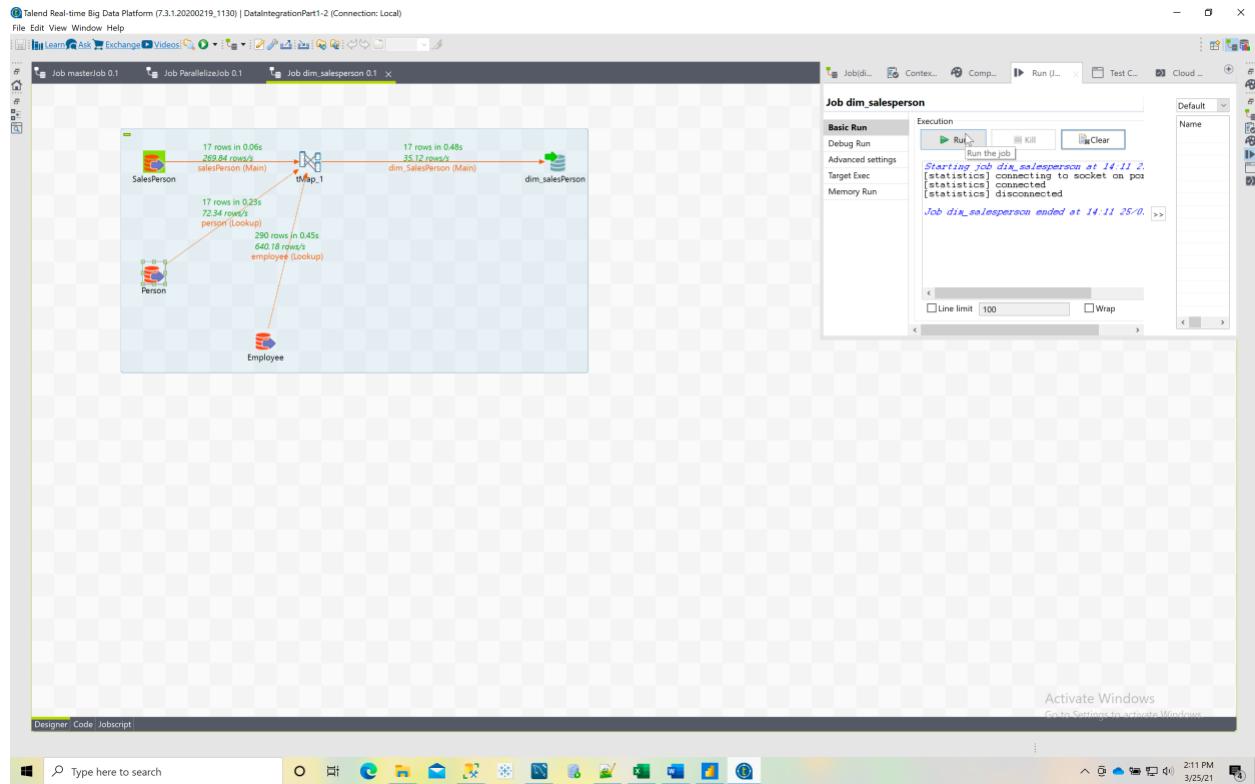


DimSalesTerritory:

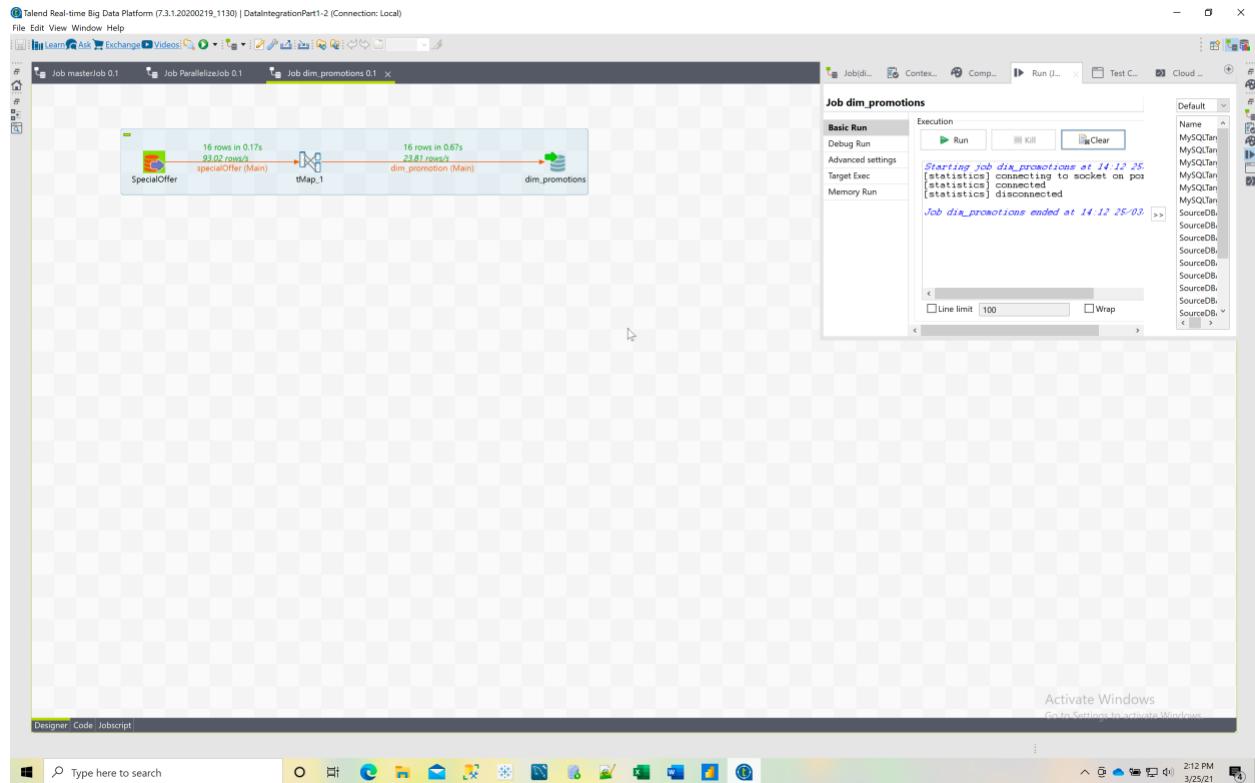


DimSalesPerson:

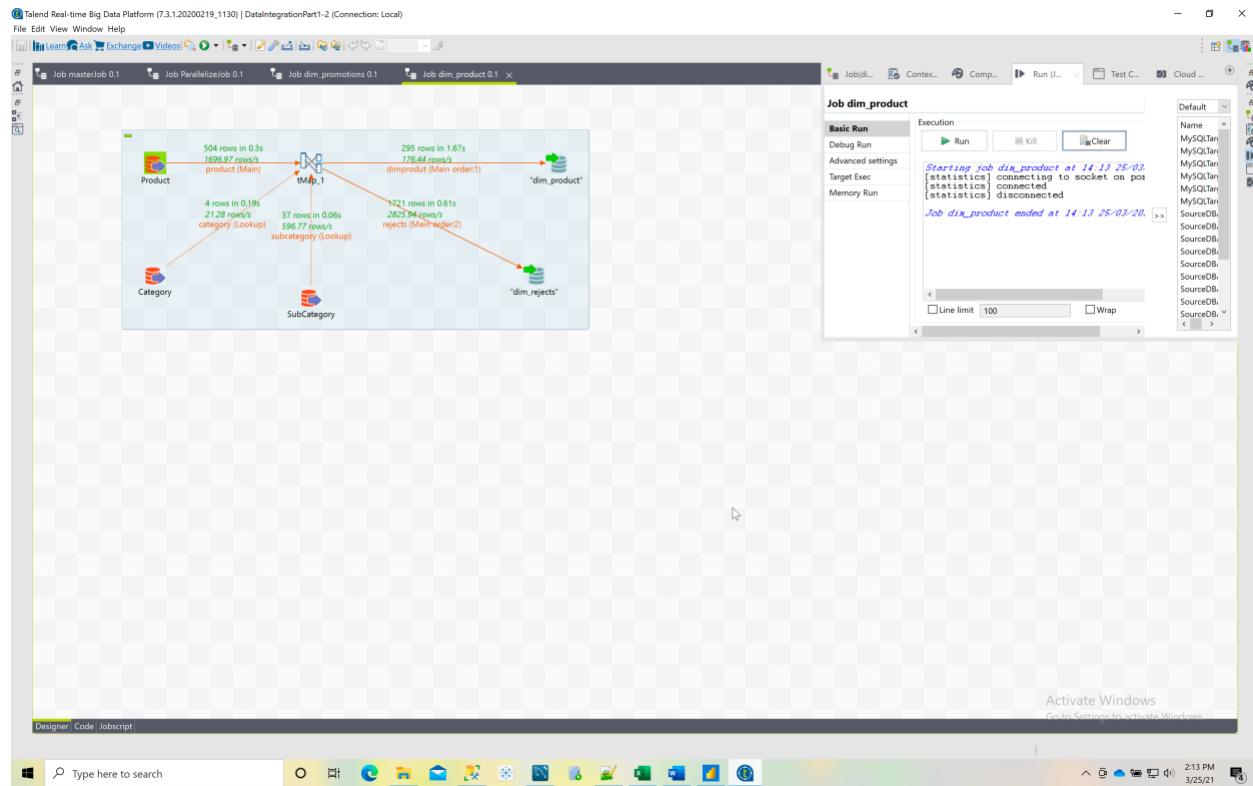




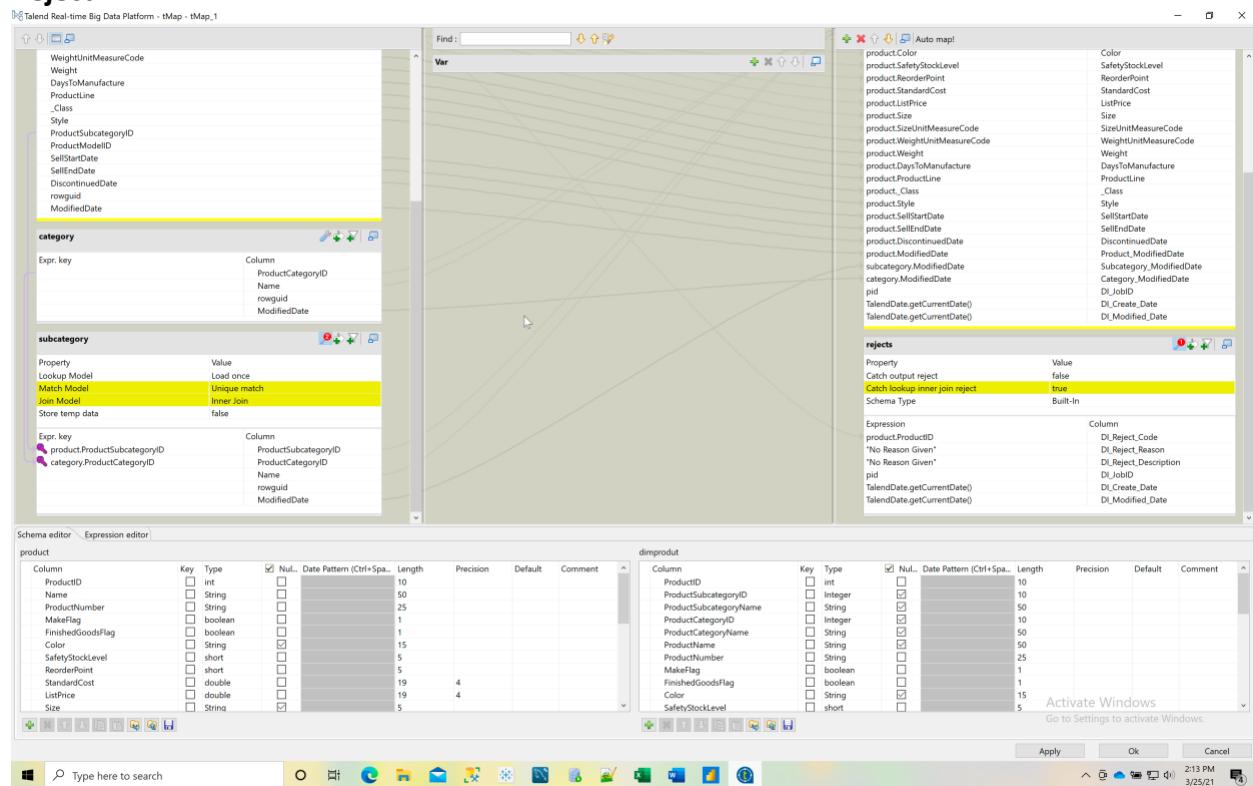
DimPromotion:



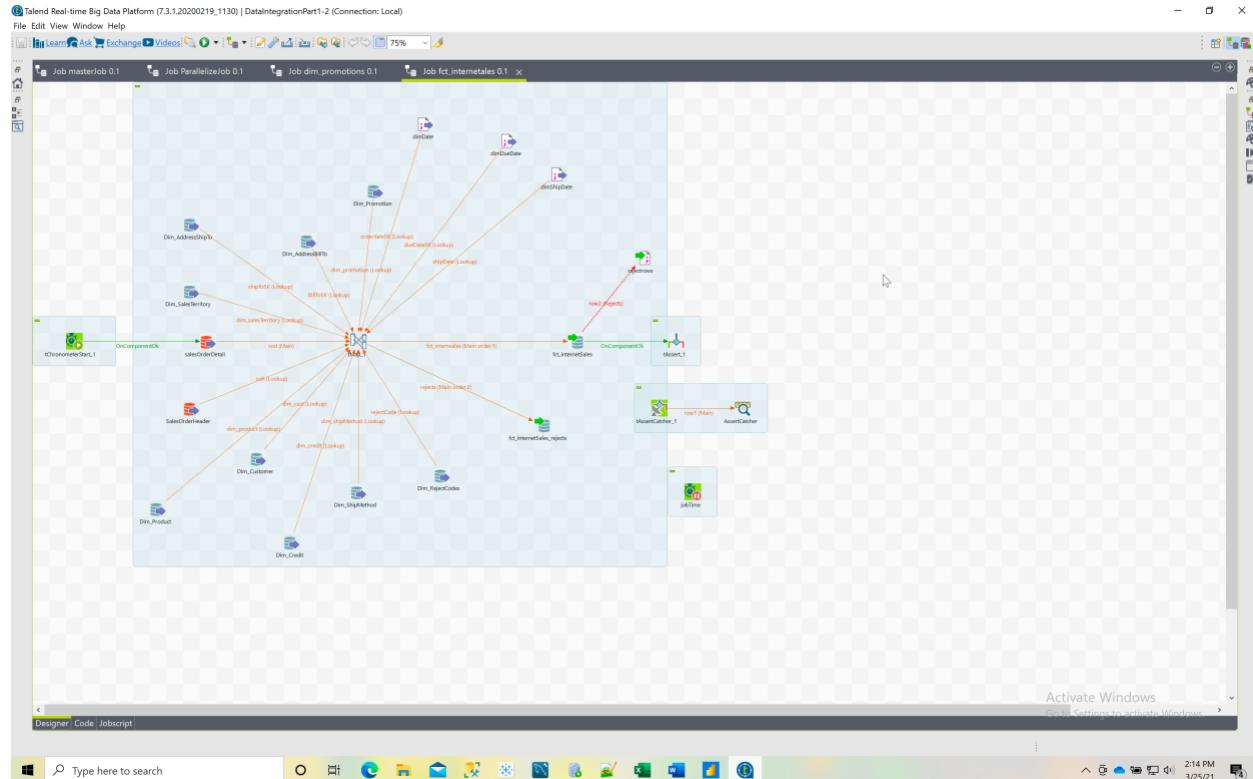
DimProduct:



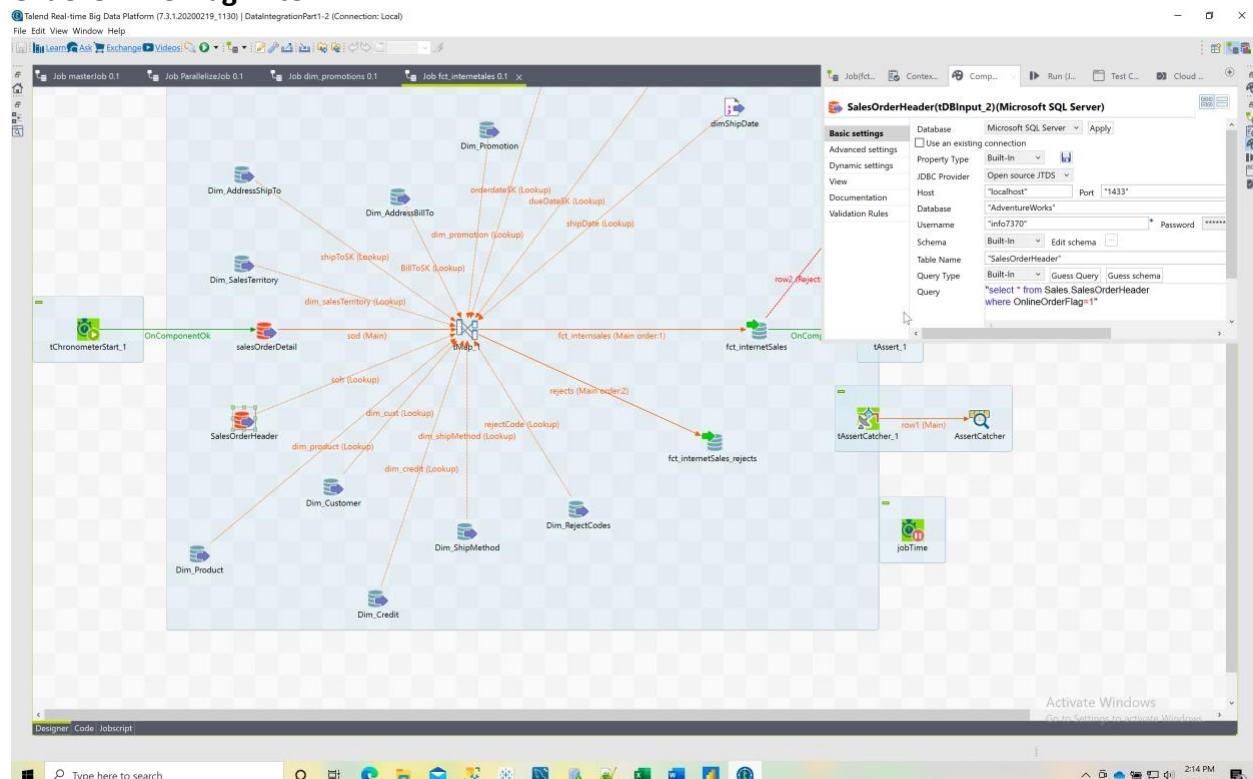
Reject :



Fact Internet Sales:



OrderOnline Flag filter:



Reject :

The screenshot shows the Talend Real-time Big Data Platform interface with the following components visible:

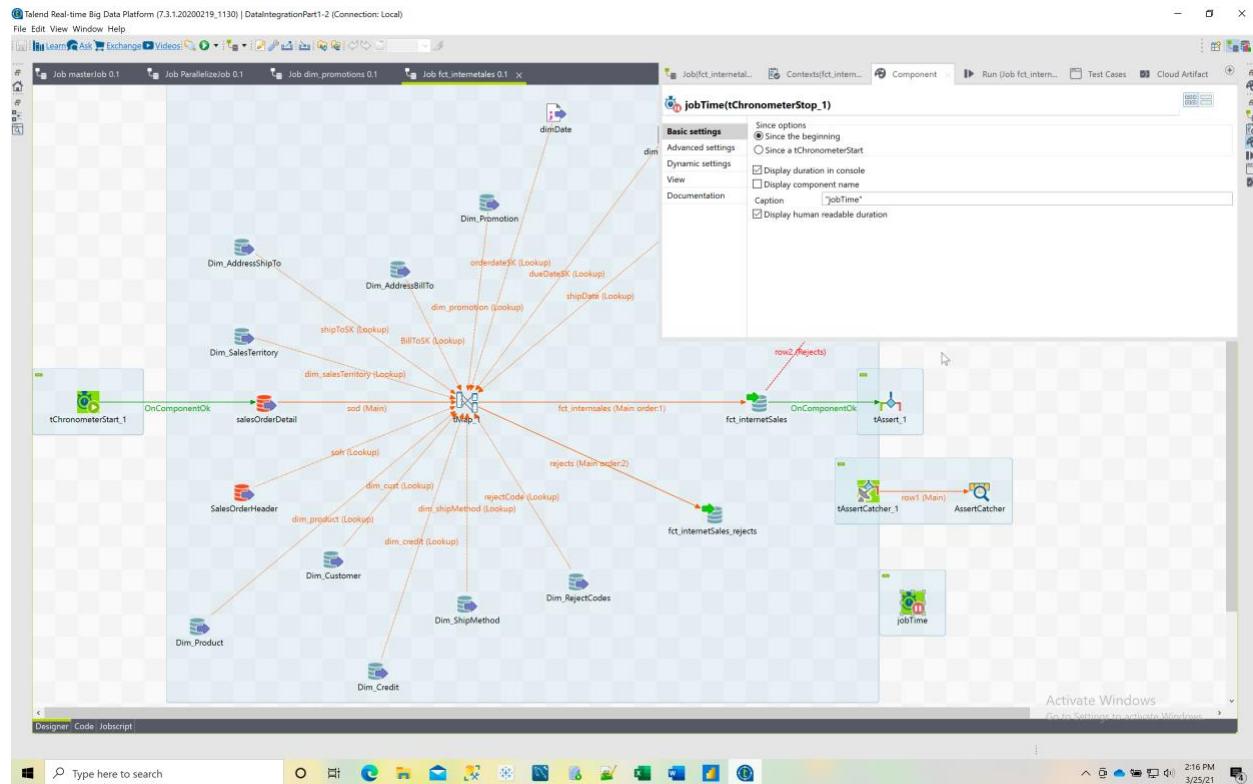
- Schema editor:** Shows the structure of the **sod** and **soh** tables.
- Expression editor:** Contains an expression key for **sod.SalesOrderID**.
- tMap Component Settings:**
 - Join Model:** Set to "Inner Join".
 - Store temp data:** Set to "false".
 - Expr. key:** `sod.SalesOrderID`
- reject Component Settings:**
 - Catch output reject:** Set to "true".
 - Catch lookup inner join reject:** Set to "true".
 - Schema Type:** Set to "Built-In".
 - Expression:** Contains various columns from the **fct_internsales** table.
- Table Definitions:** Two tables are defined: **fct_internsales** and **fct_internSales_rejects**, each with their respective columns and data types.

Error Handling :

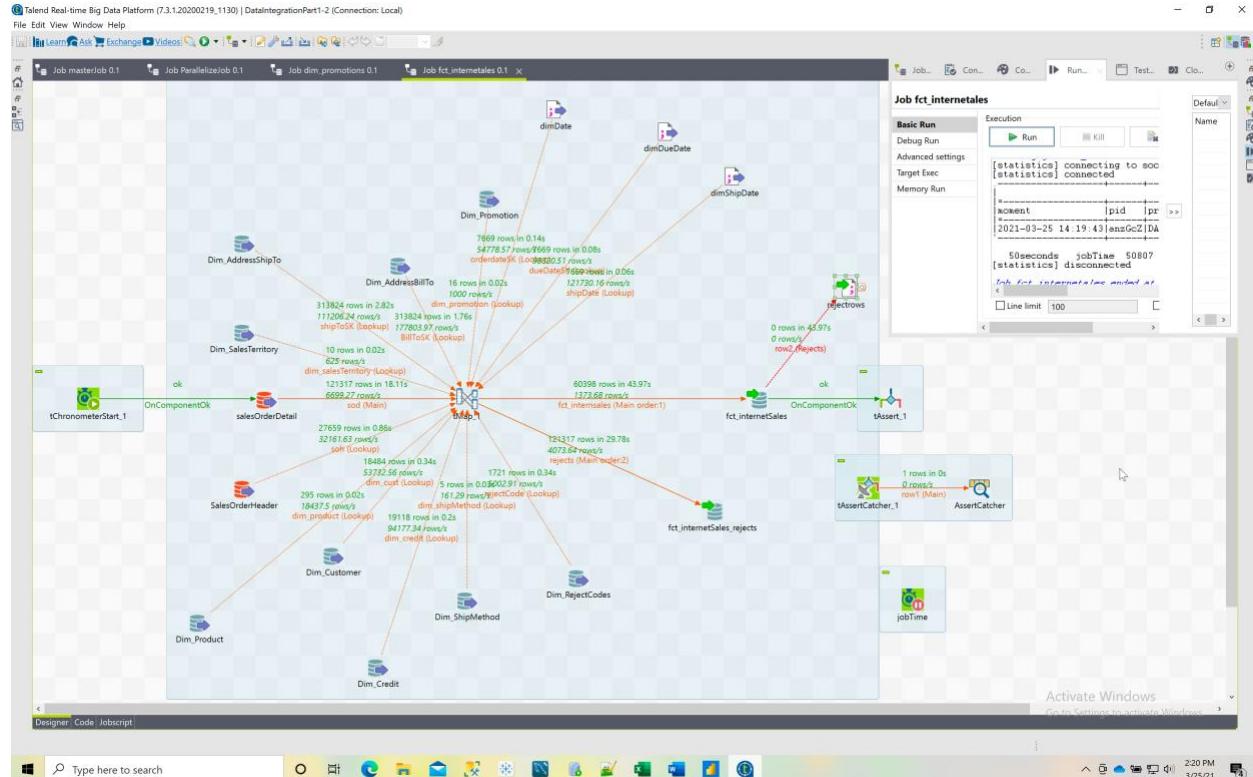
The screenshot shows the Talend Data Integration Platform interface with the following components visible:

- Job Flow:** A complex job flow involving multiple components including **tMap**, **tAssert_1**, **tJobTime**, and **tAssertCatcher_1**.
- tMap Component:** Maps data from various source tables like **SalesOrderHeader**, **SalesOrderDetail**, and **Dim_Promotion** to the **fct_internsales** target table.
- tAssert_1 Component:** An assertion component with the following settings:
 - description:** "Checking if All the rows are same as Prof. stated"
 - expression:** `((Integer)globalMap.get("tDBOutput_1_NB_LINE_INSERTED")) == 60398`
- tJobTime Component:** A component used to track the execution time of the job.
- tAssertCatcher_1 Component:** A component used to catch assertions that fail during the job execution.
- Global Map:** A global map showing various variables and their values, such as `tDBOutput_1_NB_LINE_INSERTED` and `tDBOutput_1_NB_LINE_INSERTED`.

Job time:

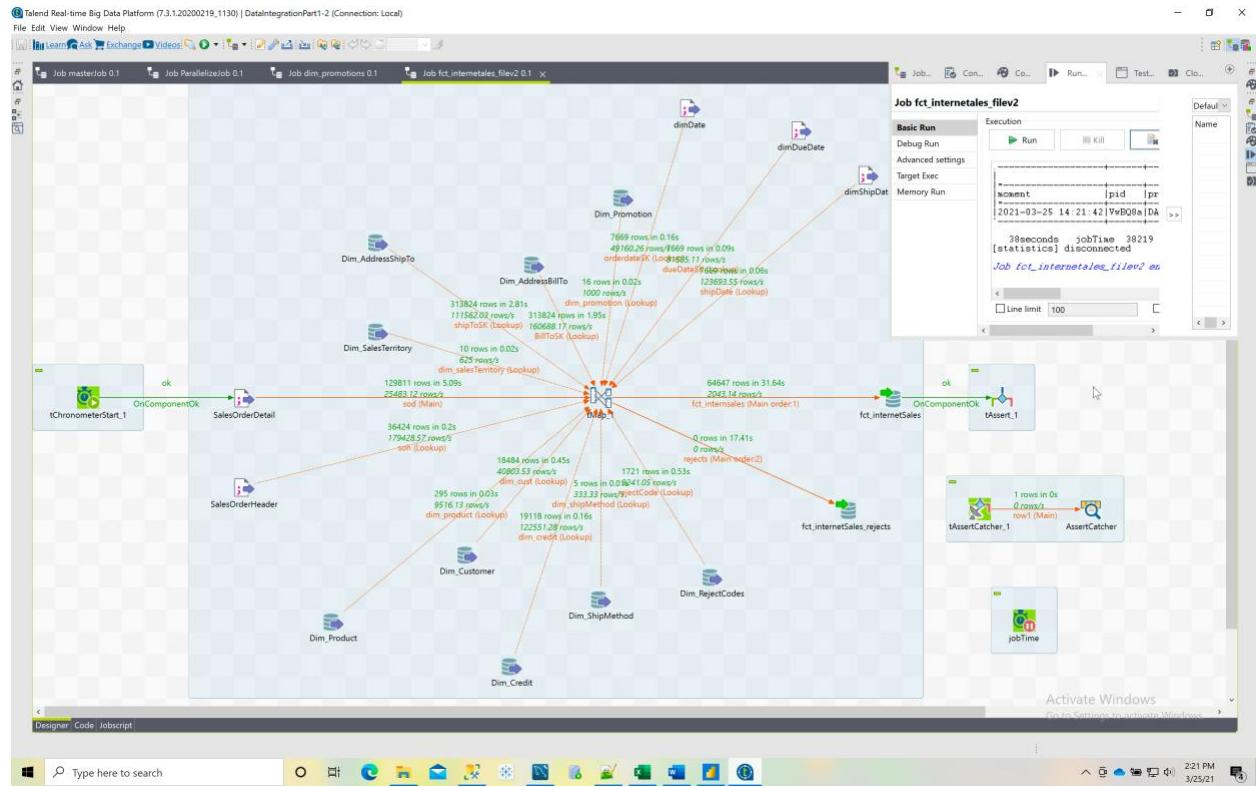


Success Run :



Fact Internet Sales – File version

Success Run:



Flag Filter:

Talend Real-time Big Data Platform - tMap - tMap_1

sod

- Column: SalesOrderID, SalesOrderDetailID, CarrierTrackingNumber, OrderQty, ProductID, SpecialOfferID, UnitPrice, UnitPriceDiscount, LineTotal

soh

- Property: Value
 - Lookup Model: Load once
 - Match Model: Unique match
 - Join Model: Inner join
 - Store temp data: false
- Expr. key: sod.SalesOrderID
- Column: SalesOrderID, RevisionNumber, OrderDate, DueDate, ShippedDate, Status, OnlineOrderFlag, SalesOrderNumber, PurchaseOrderNumber, AccountNumber, CustomerID, SalesPersonID, TerritoryID, BillToAddressID, ShipToAddressID, ShipmentMethodID

fct_internsales

- Expression: soh.OnlineOrderFlag == 1
- Column: ProductSK, CustomerSK, CreditCardSK, ShipMethodSK, SalesTerritorySK, ShipToAddressSK, BillToAddressSK, Status, PromotionSK, OrderQty, UnitPriceDiscount, soh.Total, soh.TaxNet, soh.Freight, soh.SalesOrderID, soh.SalesOrderDetailID, soh.OrderDate, soh.DueDate, soh.ShipDate, orderdateSK.DateSK, dueDateSK.DateSK, shippdate.DateSK, pid, TalendDate.getCurrentDate(), TalendDate.getCurrentDate(), TalendDate.getModifiedDate()
- rejects
- Property: Value
 - Catch output reject: false
 - Catch lookup inner join reject: true
- Schema Type: Built-In

Schema editor Expression editor

Column	Key	Type	Null	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
SalesOrderID		Integer	<input checked="" type="checkbox"/>		10	0		
SalesOrderDetailID		Integer	<input type="checkbox"/>		10	0		
CarrierTrackingNumber		String	<input checked="" type="checkbox"/>		30	0		
OrderQty		Integer	<input type="checkbox"/>		10	0		
ProductID		Integer	<input type="checkbox"/>		10	0		
SpecialOfferID		Integer	<input type="checkbox"/>		10	0		
UnitPrice		Double	<input checked="" type="checkbox"/>		19	4		
UnitPriceDiscount		Double	<input checked="" type="checkbox"/>		19	4		
LineTotal		BigDecimal	<input checked="" type="checkbox"/>		38	6		

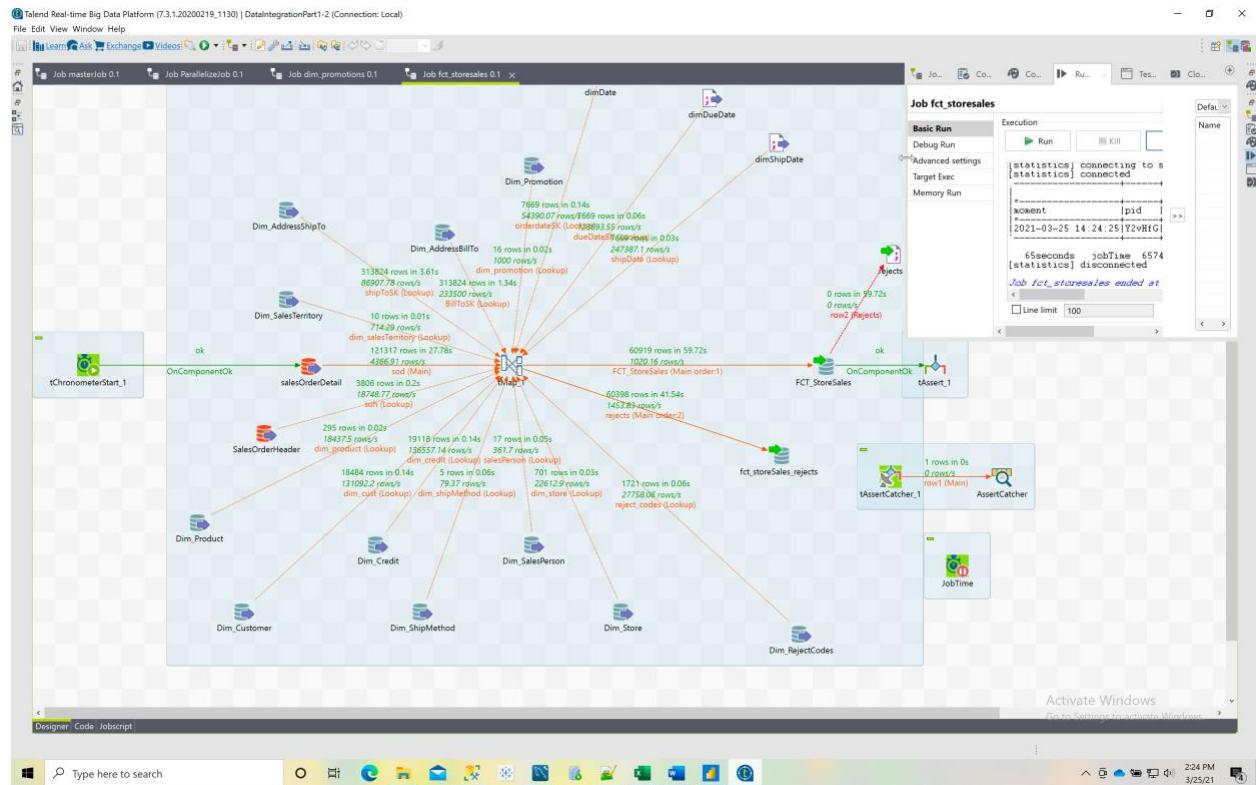
Column	Key	Type	Null	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
ProductSK		int	<input type="checkbox"/>		10			
CustomerSK		int	<input type="checkbox"/>		10			
CreditCardSK		int	<input type="checkbox"/>		10			
ShipMethodSK		int	<input type="checkbox"/>		10			
SalesTerritorySK		int	<input type="checkbox"/>		10			
ShipToAddressSK		int	<input type="checkbox"/>		10			
BillToAddressSK		int	<input type="checkbox"/>		10			
Status		int	<input type="checkbox"/>		3			
PromotionSK		int	<input type="checkbox"/>		10			
OrderQty		int	<input type="checkbox"/>		5			
UnitPriceDiscount		double	<input type="checkbox"/>		19			

Activate Windows Go to Settings to activate Windows.

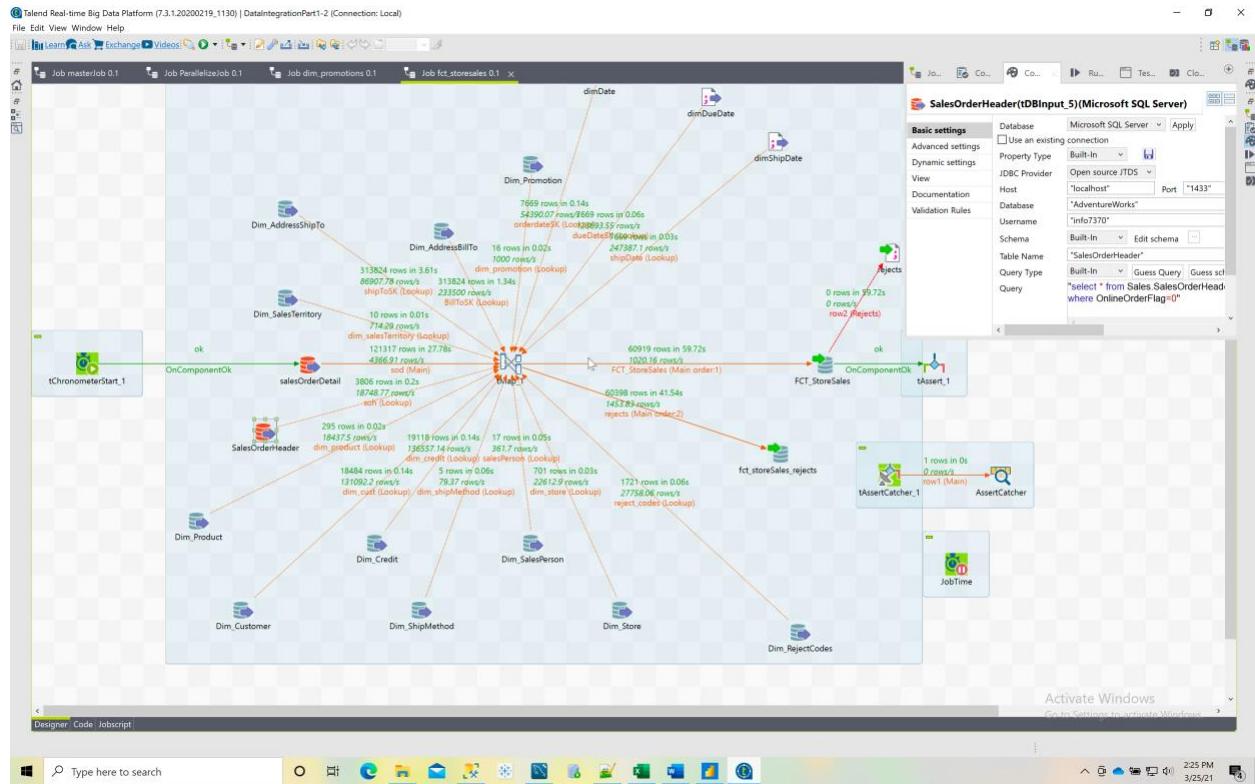
Apply Ok Cancel

Windows Taskbar: Type here to search, Start button, File, Home, Insert, Mail, Photos, Videos, Games, Control Panel, File Explorer, Task View, Start, Taskbar settings, Help & Support, 2:22 PM, 3/25/21, Battery icon.

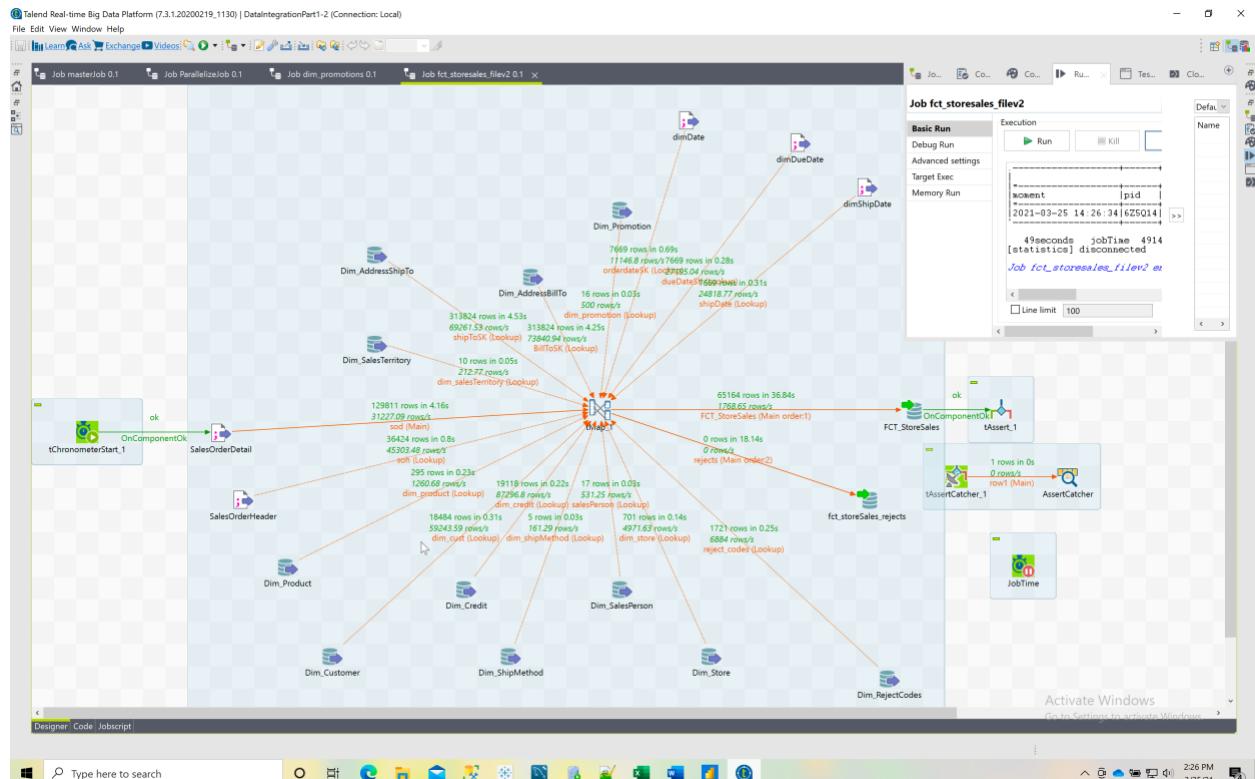
Fact Store Sales:



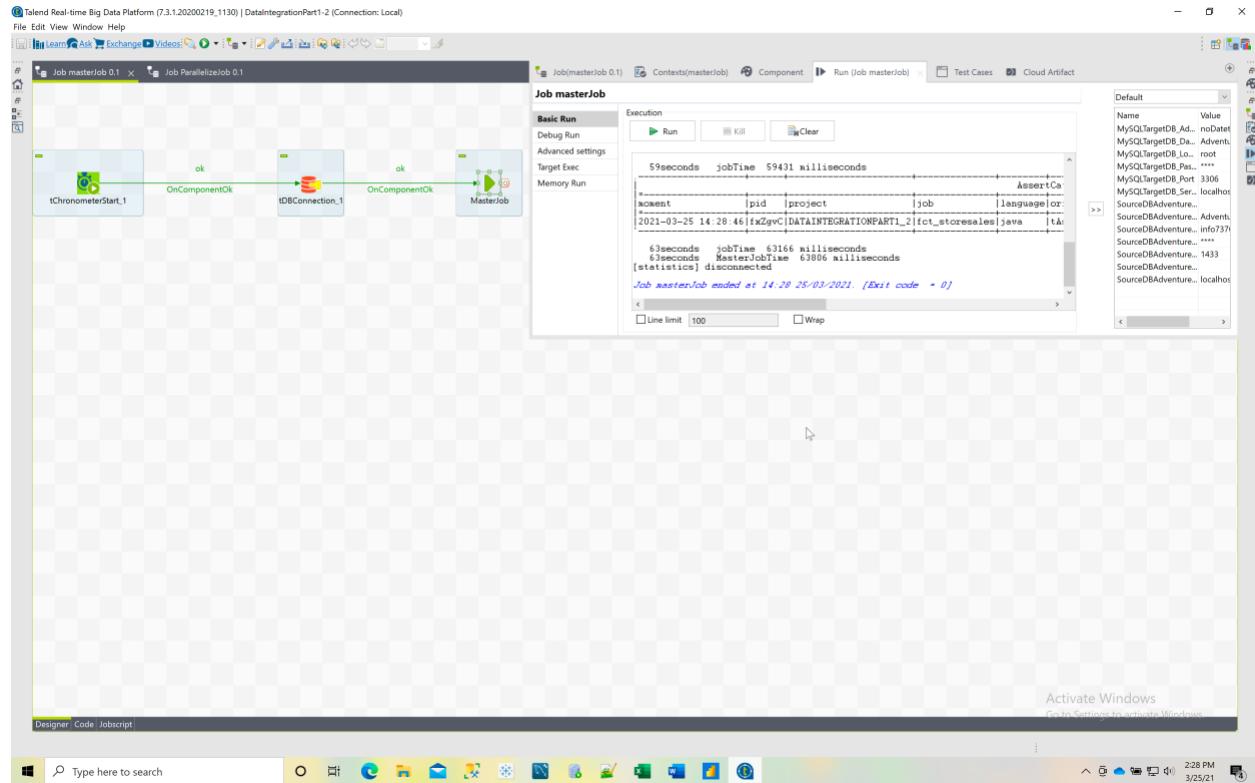
Flag Filter :



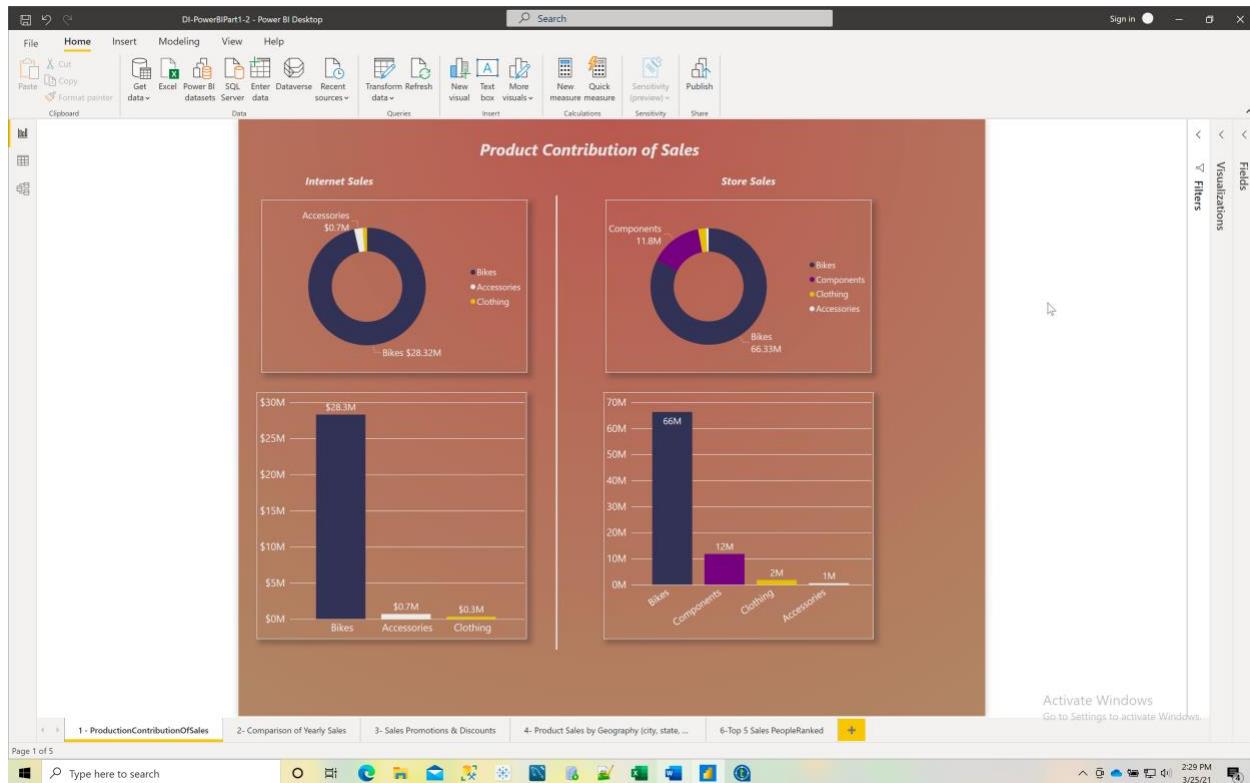
Fact Store Sales File Version



MASTER JOB SUCCESS RUN:



POWERBI :



The screenshot shows a MySQL Workbench session titled "DataIntegrationPart1-2". The query editor contains the following SQL code:

```

1 -- 1. Product Contribution of Sales
2 use adventureworksdu;
3 select dp.ProductCategoryName, CONCAT('$',sum(fis.LineTotal)) as SalesAmount
4 from
5 adventureworksdu.FCT_InternetSales fis
6 JOIN adventureworksdu.dim_product dp ON dp.ProductSK = fis.ProductSK
7 group by dp.ProductCategoryName
8 ORDER BY SUM(fis.LineTotal) DESC;
9
10 -- Select dp.ProductCategoryName, CONCAT('$',sum(fss.LineTotal)) as SalesAmount
11 from
12 adventureworksdu.FCT_StoreSales fss
13 JOIN adventureworksdu.dim_product dp ON dp.ProductSK = fss.ProductSK
14 group by dp.ProductCategoryName
15 ORDER BY SUM(fss.LineTotal) DESC;
16
17
18 -- 2 . Comparison of Yearly Sales
19

```

The results grid shows the following data:

ProductCategoryName	SalesAmount
Bikes	\$56638289.3314
Accessories	\$1401518.9200
Clothing	\$679545.2200

The status bar at the bottom right indicates "2:29 PM 3/25/21".

The screenshot shows the MySQL Workbench interface. The top navigation bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The main window has a 'Query 1' tab labeled 'AdventureworksDW_AdventureworksDW_MySQL'. The left sidebar shows the 'adventureworksdw' schema with its tables, stored procedures, and functions. The central area contains a multi-line SQL query:

```

1 -- 1 . Product Contribution of Sales
2 use adventureworksdw;
3 • Select dp.ProductCategoryName, CONCAT('$',SUM(fis.LineTotal)) as SalesAmount
4   from
5     adventureworksdw.FCT_InternetSales fis
6   JOIN adventureworksdw.dim_product dp ON dp.ProductSK = fis.ProductSK
7   group by dp.ProductCategoryName
8   ORDER BY SUM(fis.LineTotal) DESC;
9
10 • Select dp.ProductCategoryName, CONCAT('$',SUM(fss.LineTotal)) as SalesAmount
11   from
12     adventureworksdw.FCT_StoreSales fss
13   JOIN adventureworksdw.dim_product dp ON dp.ProductSK = fss.ProductSK
14   group by dp.ProductCategoryName
15   ORDER BY SUM(fss.LineTotal) DESC;
16
17
18 -- 2 . Comparison of Yearly Sales
19

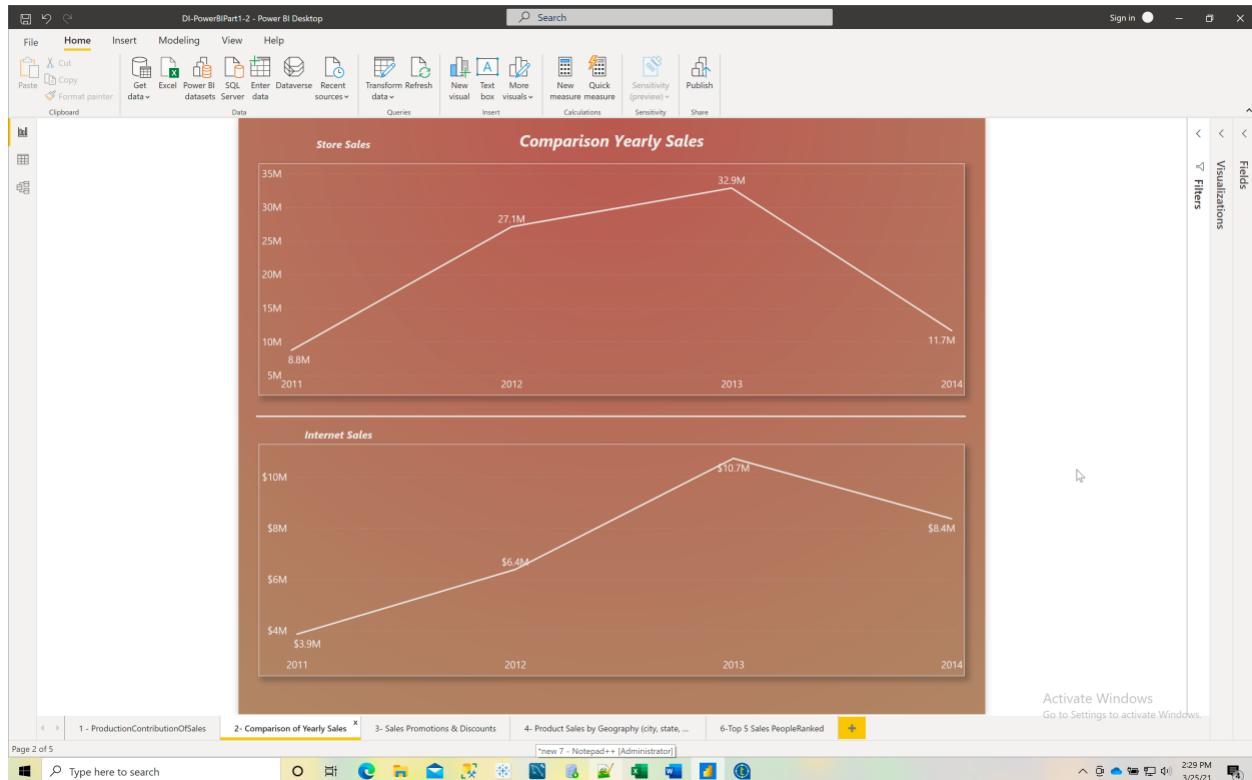
```

The results grid below shows the sales amount for different product categories:

ProductCategoryName	SalesAmount
Bikes	\$13266056.1380
Components	\$2360586.5728
Clothing	\$3561539.8422
Accessories	\$1142823.8538

The bottom section shows the 'Result 21' output pane with a table of actions and their details.

2. Comparison of Yearly Sales



```

1 JOIN adventureworksdw.dim_product dp ON dp.ProductSK = fss.ProductSK
2 group by dp.ProductCategoryName
3 ORDER BY SUM(fss.LineTotal) DESC;
4
5 -- 2 . Comparison of Yearly Sales
6
7 select YEAR(OrderDate) as OrderYearName, CONCAT('$',SUM(fis.LineTotal)) as SalesAmount
8 from adventureworksdw.FCT_Internetsales fis
9 Group by YEAR(OrderDate)
10 Order by SUM(fis.LineTotal) desc ;
11
12
13 select YEAR(OrderDate) as OrderYearName, CONCAT('$',SUM(fss.LineTotal)) as SalesAmount
14 from adventureworksdw.FCT_Storesales fss
15 Group by YEAR(OrderDate)
16 Order by SUM(fss.LineTotal) desc ;
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31

```

Result Grid

OrderYearName	SalesAmount
2020	\$17623456.9900
2013	\$10732127.3300
2014	\$8372829.7000
2018	\$7532129.8270
2012	\$614966.9717
2019	\$614966.9990
2011	\$3861120.2114
2021	\$15889.6900
2017	\$14477.3382

Action Output

- 1 14:32:05 select YEAR(OrderDate) as OrderYearName, CONCAT('\$',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Internet... 9 rows(s) returned 0.469 sec / 0.000 sec
- 2 14:32:06 select YEAR(OrderDate) as OrderYearName, CONCAT('\$',SUM(fss.LineTotal)) as SalesAmount from adventureworksdw.FCT_Stores... 8 rows(s) returned 0.422 sec / 0.000 sec
- 3 14:32:13 select YEAR(OrderDate) as OrderYearName, CONCAT('\$',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Internet... 9 rows(s) returned 0.406 sec / 0.000 sec

```

13 JOIN adventureworksdu.dim_product dp ON dp.ProductSK = fss.ProductSK
14 group by dp.ProductCategoryName
15 ORDER BY SUM(fss.LineTotal) DESC;
16
17
18 -- 2 . Comparison of Yearly Sales
19
20 • select YEAR( OrderDate ) as OrderYearName, CONCAT('$',SUM(fis.LineTotal)) as SalesAmount
from adventureworksdu.FCT_InternetSales fis
Group by YEAR( OrderDate )
Order by SUM(fis.LineTotal) desc ;
21
22
23
24
25
26 • select YEAR( OrderDate ) as OrderYearName, CONCAT('$',SUM(fss.LineTotal)) as SalesAmount
from adventureworksdu.FCT_StoresSales fss
27 Group by YEAR( OrderDate )
28 Order by SUM(fss.LineTotal) desc ;
29
30
31

```

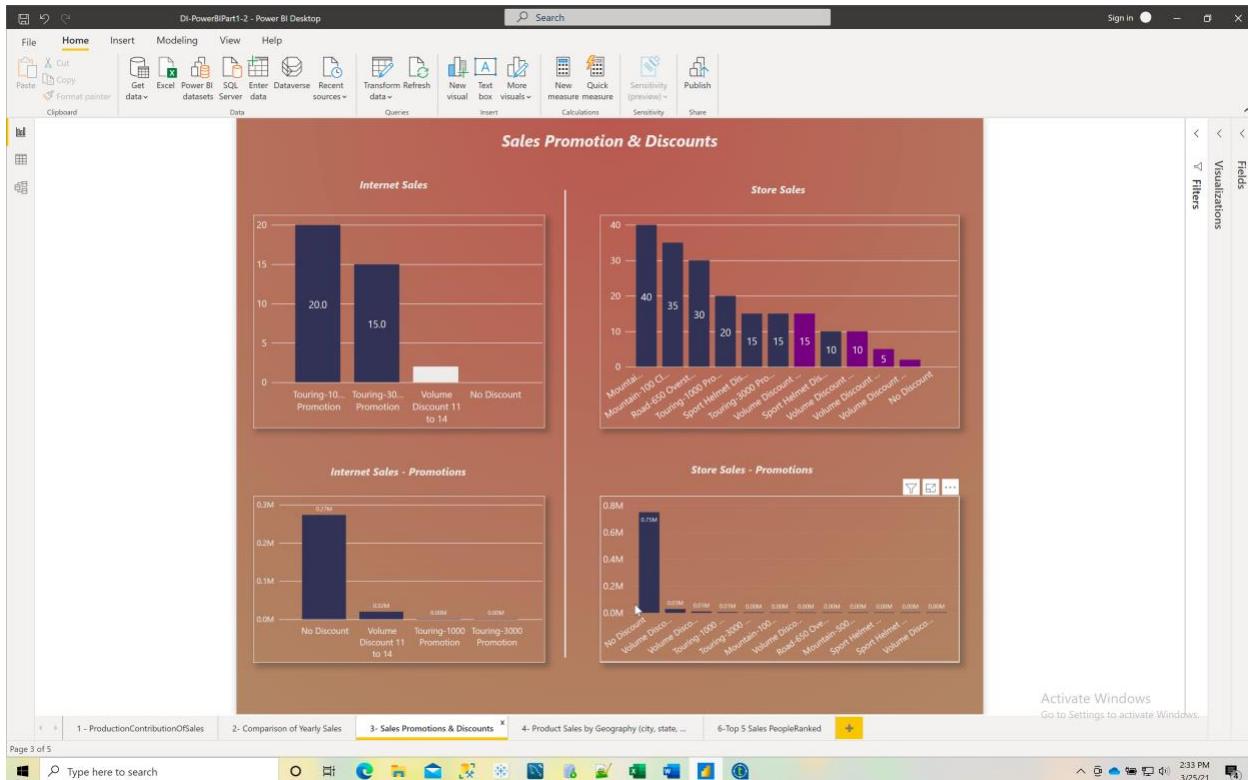
Result Grid:

OrderYearName	SalesAmount
2020	\$35942054.0013
2013	\$32990351.7375
2019	\$32245459.2728
2012	\$27134039.8009
2018	\$19375527.7482
2014	\$11685099.0833
2011	\$877851.9996
2017	\$520839.8088

Action Output:

- 1 14:32:05 select YEAR(OrderDate) as OrderYearName, CONCAT('\$',SUM(fis.LineTotal)) as SalesAmount from adventureworksdu.FCT_InternetSales fis; 9 rows(s) returned 0.469 sec / 0.000 sec
- 2 14:32:06 select YEAR(OrderDate) as OrderYearName, CONCAT('\$',SUM(fss.LineTotal)) as SalesAmount from adventureworksdu.FCT_StoresSales fss; 8 rows(s) returned 0.422 sec / 0.000 sec
- 3 14:32:13 select YEAR(OrderDate) as OrderYearName, CONCAT('\$',SUM(fis.LineTotal)) as SalesAmount from adventureworksdu.FCT_InternetSales fis; 9 rows(s) returned 0.406 sec / 0.000 sec
- 4 14:32:32 select YEAR(OrderDate) as OrderYearName, CONCAT('\$',SUM(fss.LineTotal)) as SalesAmount from adventureworksdu.FCT_StoresSales fss; 8 rows(s) returned 0.734 sec / 0.000 sec

3. Sales Promotions & Discounts



The screenshot shows a MySQL Workbench interface with a query editor and results grid.

Query Editor:

```

28 Group By YEAR(OrderDate)
29 Order By SUM(fss.LineTotal) desc;
30
31
32 --- 3. Sales Promotions & Discounts
33
34 • SELECT
35     dimprod.Description,
36     dimprod.type,
37
38     SUM(DiscountPct * 100) AS Discount,
39     SUM((fis.LineTotal)/100) AS 'Promotion %'
40   FROM adventureworksdw.FCT_InternetSales fis
41   INNER JOIN adventureworksdw.DIM_promotions dimprod ON dimprod.PromotionSK = fis.PromotionSK
42 GROUP BY
43     dimprod.Description,
44     dimprod.type
45 ORDER BY Discount DESC;
46

```

Results Grid:

Description	Type	Discount	Promotion %
Volume Discount 11 to 14	Volume Discount	8758.0000	41580.29718600
Touring-3000 Promotion	New Product	630.0000	311.78700000
Touring-1000 Promotion	New Product	540.0000	643.69890000
No Discount	No Discount	0.0000	56519.59156300

Output Window:

```

1 14:32:05 select YEAR(OrderDate ) as OrderYearName, CONCAT('Y,'SUM(fis.LineTotal) as SalesAmount from adventureworksdw.FCT_Internet... 3 rows(s) returned 0.469 sec / 0.000 sec
2 14:32:06 select YEAR(OrderDate ) as OrderYearName, CONCAT('Y,'SUM(fis.LineTotal) as SalesAmount from adventureworksdw.FCT_StoreS... 3 rows(s) returned 0.422 sec / 0.000 sec
3 14:32:13 select YEAR(OrderDate ) as OrderYearName, CONCAT('Y,'SUM(fis.LineTotal) as SalesAmount from adventureworksdw.FCT_Internet... 3 rows(s) returned 0.406 sec / 0.000 sec
4 14:32:23 select YEAR(OrderDate ) as OrderYearName, CONCAT('Y,'SUM(fis.LineTotal) as SalesAmount from adventureworksdw.FCT_StoreS... 3 rows(s) returned 0.734 sec / 0.000 sec
5 14:33:17 SELECT dimprod.Description, dimprod.type, SUM(dimprod.DiscountPct * 100) AS Discount, SUM(fis.LineTotal)/100 AS Promotio... 4 rows(s) returned 0.609 sec / 0.000 sec

```

The screenshot shows the MySQL Workbench interface with the following details:

- Query Editor:** Contains a SQL script named "DataIntegrationPart1-2". The script performs a join between the fact table FCT_Sales and the dimension table DM_promotions, filtering by promotion type and calculating a discount percentage.
- Result Grid:** Displays the output of the query, showing columns: Description, type, Discount, and Promotion %. The data includes various promotional offers like "Touring-3000 Promotion" and "Mountain-500 Silver Clearance Sale".
- Output Tab:** Shows the execution history with 6 actions, each detailing the time, action, message, and duration/fetch time.
- Toolbar:** Includes standard MySQL Workbench icons for file operations, database navigation, and help.
- Help Panel:** Provides information about automatic context help being disabled.

```

43    dimprom.Description,
44    dimprom.type
45    ORDER BY Discount DESC;
46
47
48 •   SELECT
49    dimprom.Description,
50    dimprom.type,
51
52    SUM((fss.LineTotal)*100) AS Discount,
53    SUM((fss.LineTotal)/100) AS Promotion %
54  FROM adventureworksDW.FCT_Sales fss
55  INNER JOIN adventureworksDW.DIM_promotions dimprom ON dimprom.PromotionSK = fss.PromotionSK
56  GROUP BY
57    dimprom.Description,
58    dimprom.type
59    ORDER BY Discount DESC;
60
61

```

Description	Type	Discount	Promotion %
Touring-3000 Promotion	New Product	15675.0000	9197.10427600
Mountain-500 Silver Clearance Sale	Discontinued Product	14120.0000	\$34.93253200
Mountain-100 Clearance Sale	Discontinued Product	10000.0000	5115.96248000
Touring-1000 Clearance Sale	New Product	10000.0000	5115.96248000
Volume Discount 15 to 24	Volume Discount	6275.0000	3187.2632100
Volume Discount 11 to 14	Volume Discount	5416.0000	59860.2534100
Road-450 Overstock	Excess Inventory	3840.0000	1057.2719700
Sport Helmet Discount-2003	Seasonal Discount	2640.0000	189.1135200
Sport Helmet Discount-2002	Seasonal Discount	2050.0000	155.48670800
Volume Discount 25 to 40	Volume Discount	1680.0000	2549.85377200
Volume Discount 41 to 60	Volume Discount	60.0000	34.73979800
No Discount	No Discount	0.0000	159368.79754...

4.

Product Sales by Geography (city, state, country)

Team4 | Spring 2021 | MS IS | INFO 7370 Sec 01 | Prof: Rick Sherman

Di-PowerBIPart1-2 - Power BI Desktop

File Home Insert Modeling View Help

Cut Copy Format painter Clipboard

Get data Excel Power BI datasets SQL Server data Data Sources Recent sources Queries Transform data Refresh data New visual Text box Insert More visuals Calculations New measure measure Sensitivity (previous) Share Publish

Internet Sales

By Territory

Store Sales

By Territory

By Region

Region	Sales (M)
US	9.39M
AU	9.06M
GB	3.39M
DE	2.83M
FR	2.64M
CA	1.98M

By Region

Region	Sales (M)
US	53.61M
CA	14.38M
FR	4.61M
GB	4.28M
DE	2.02M
AU	1.59M

Activate Windows
Go to Settings to activate Windows.

Page 4 of 5

1 - ProductionContributionOfSales 2 - Comparison of Yearly Sales 3 - Sales Promotions & Discounts 4 - Product Sales by Geography (city, state,...) 6 - Top 5 Sales PeopleRanked

MappingSheet - Excel

234 PM 3/25/21

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Schemas: adventureworksdw

Query 1 AdventureWorksDW_MySQL* SQL File 2* SQL File 3* SQL File 4 DataIntegrationPart1-Z*

adventureworksdw

- Tables
- Views
- Stored Procedures
- Functions
- chinook
- classmate
- info7370_output
- sales
- sys
- world

Limit to 1000 rows

61
62 --- 4 . Product Sales by Geo
63 • Select
64 dp.ProductName as Product,
65 SUM(fis.LineTotal) as SalesAmount,
66 dst.TerritoryName,
67 dst.SalesGroup,
68 dst.CountryRegionCode
69 From adventureworksdw.FCT_InternetSales fis
70 JOIN adventureworksdw.Dim_Product dp ON fis.ProductSK = dp.ProductSK
71 JOIN Dim_SalesTerritory dst ON dst.SalesTerritorySK = fis.SalesTerritorySK
72 GROUP BY
73 dp.ProductName,
74 dst.TerritoryName,
75 dst.SalesGroup,
76 dst.CountryRegionCode
77 ORDER BY SUM(fis.LineTotal) DESC;
78
79 -- 5 .Product Profits by Sales Territory

Result Grid

Product	SalesAmount	TerritoryName	SalesGroup	CountryRegionCode
Road-150 Red_62	397187.9700	Australia	Pacific	AU
Road-150 Red_48	360031.4300	Australia	Pacific	AU
Road-150 Red_56	382874.9500	Australia	Pacific	AU
Mountain-200 Black_42	571005.3000	Australia	Pacific	AU
Mountain-200 Black_38	370038.0400	Australia	Pacific	AU
Road-150 Red_52	361005.2700	Australia	Pacific	AU
Mountain-200 Silver_42	345644.2200	Australia	Pacific	AU
Mountain-200 Black_38	335232.4668	Australia	Pacific	AU
Mountain-200 Black_46	334966.5750	Australia	Pacific	AU
Road-250 Red_58	333797.0625	Australia	Pacific	AU
Road-150 Red_44	333797.0625	Australia	Pacific	AU
Road-150 Red_44	318466.0300	Australia	Pacific	AU
Mountain-200 Black_46	315233.2688	Southwest	North America	US
Road-150 Red_48	111199.4670	Southwest	North America	US

Result 28 X

Output

Action Output

- Time Action Message Duration / Fatch
- 2 14:32:06 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Sto... 8 rows(s) returned 0.422 sec / 0.000 sec
- 3 14:32:13 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Inte... 9 rows(s) returned 0.406 sec / 0.000 sec
- 4 14:32:32 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Sto... 8 rows(s) returned 0.734 sec / 0.000 sec
- 5 14:33:17 SELECT dimProd.Description, dimProd.type, SUM(dimFis.LineTotal)/100 AS Discount, SUM(dimFis.LineTotal)/100 AS Promoti... 4 rows(s) returned 0.609 sec / 0.000 sec
- 6 14:33:51 SELECT dimProd.Description, dimProd.type, SUM(dimFis.LineTotal)/100 AS Discount, SUM(dimFis.LineTotal)/100 AS Promoti... 12 rows(s) returned 0.485 sec / 0.000 sec
- 7 14:34:46 Select dp.ProductName as Product, SUM(fis.LineTotal) as SalesAmount, dst.TerritoryName, dst.SalesGroup, dst.CountryRegionCode ... 963 row(s) returned 0.531 sec / 0.000 sec

Activate Windows
Go to Settings to activate
0.609 sec / 0.000 sec

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Schemas: adventureworksdw

Query 1 AdventureWorksDW_MySQL* SQL File 2* SQL File 3* SQL File 4 DataIntegrationPart1-Z*

adventureworksdw

- Tables
- Views
- Stored Procedures
- Functions
- chinook
- classmate
- info7370_output
- sales
- sys
- world

Limit to 1000 rows

61
62 --- 4 . Product Sales by Geo
63 • Select
64 dp.ProductName as Product,
65 SUM(fis.LineTotal) as SalesAmount,
66 dst.TerritoryName,
67 dst.SalesGroup,
68 dst.CountryRegionCode
69 From adventureworksdw.FCT_InternetSales fis
70 JOIN adventureworksdw.Dim_Product dp ON fis.ProductSK = dp.ProductSK
71 JOIN Dim_SalesTerritory dst ON dst.SalesTerritorySK = fis.SalesTerritorySK
72 GROUP BY
73 dp.ProductName,
74 dst.TerritoryName,
75 dst.SalesGroup,
76 dst.CountryRegionCode
77 ORDER BY SUM(fis.LineTotal) DESC;
78
79 -- 5 .Product Profits by Sales Territory

Result Grid

Product	SalesAmount	TerritoryName	SalesGroup	CountryRegionCode
Road-150 Red_62	397187.9700	Australia	Pacific	AU
Road-150 Red_48	360031.4300	Australia	Pacific	AU
Road-150 Red_56	382874.9500	Australia	Pacific	AU
Mountain-200 Black_42	571005.3000	Australia	Pacific	AU
Mountain-200 Black_38	370038.0400	Australia	Pacific	AU
Road-150 Red_52	361005.2700	Australia	Pacific	AU
Mountain-200 Silver_42	345644.2200	Australia	Pacific	AU
Mountain-200 Black_38	335232.4668	Australia	Pacific	AU
Mountain-200 Black_46	334966.5750	Australia	Pacific	AU
Road-250 Red_58	333797.0625	Australia	Pacific	AU
Road-150 Red_44	333797.0625	Australia	Pacific	AU
Road-150 Red_44	318466.0300	Australia	Pacific	AU
Mountain-200 Black_46	315233.2688	Southwest	North America	US
Road-150 Red_48	111199.4670	Southwest	North America	US

Result 28 X

Output

Action Output

- Time Action Message Duration / Fatch
- 2 14:32:06 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Sto... 8 rows(s) returned 0.422 sec / 0.000 sec
- 3 14:32:13 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Inte... 9 rows(s) returned 0.406 sec / 0.000 sec
- 4 14:32:32 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Sto... 8 rows(s) returned 0.734 sec / 0.000 sec
- 5 14:33:17 SELECT dimProd.Description, dimProd.type, SUM(dimFis.LineTotal)/100 AS Discount, SUM(dimFis.LineTotal)/100 AS Promoti... 4 rows(s) returned 0.609 sec / 0.000 sec
- 6 14:33:51 SELECT dimProd.Description, dimProd.type, SUM(dimFis.LineTotal)/100 AS Discount, SUM(dimFis.LineTotal)/100 AS Promoti... 12 rows(s) returned 0.485 sec / 0.000 sec
- 7 14:34:46 Select dp.ProductName as Product, SUM(fis.LineTotal) as SalesAmount, dst.TerritoryName, dst.SalesGroup, dst.CountryRegionCode ... 963 row(s) returned 0.531 sec / 0.000 sec

Activate Windows
Go to Settings to activate
0.609 sec / 0.000 sec

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Schemas: adventureworksdw

Query 1 AdventureWorksDW_MySQL* SQL File 2* SQL File 3* SQL File 4 DataIntegrationPart1-Z*

adventureworksdw

- Tables
- Views
- Stored Procedures
- Functions
- chinook
- classmate
- info7370_output
- sales
- sys
- world

Limit to 1000 rows

61
62 --- 4 . Product Sales by Geo
63 • Select
64 dp.ProductName as Product,
65 SUM(fis.LineTotal) as SalesAmount,
66 dst.TerritoryName,
67 dst.SalesGroup,
68 dst.CountryRegionCode
69 From adventureworksdw.FCT_InternetSales fis
70 JOIN adventureworksdw.Dim_Product dp ON fis.ProductSK = dp.ProductSK
71 JOIN Dim_SalesTerritory dst ON dst.SalesTerritorySK = fis.SalesTerritorySK
72 GROUP BY
73 dp.ProductName,
74 dst.TerritoryName,
75 dst.SalesGroup,
76 dst.CountryRegionCode
77 ORDER BY SUM(fis.LineTotal) DESC;
78
79 -- 5 .Product Profits by Sales Territory

Result Grid

Product	SalesAmount	TerritoryName	SalesGroup	CountryRegionCode
Road-150 Red_62	397187.9700	Australia	Pacific	AU
Road-150 Red_48	360031.4300	Australia	Pacific	AU
Road-150 Red_56	382874.9500	Australia	Pacific	AU
Mountain-200 Black_42	571005.3000	Australia	Pacific	AU
Mountain-200 Black_38	370038.0400	Australia	Pacific	AU
Road-150 Red_52	361005.2700	Australia	Pacific	AU
Mountain-200 Silver_42	345644.2200	Australia	Pacific	AU
Mountain-200 Black_38	335232.4668	Australia	Pacific	AU
Mountain-200 Black_46	334966.5750	Australia	Pacific	AU
Road-250 Red_58	333797.0625	Australia	Pacific	AU
Road-150 Red_44	333797.0625	Australia	Pacific	AU
Road-150 Red_44	318466.0300	Australia	Pacific	AU
Mountain-200 Black_46	315233.2688	Southwest	North America	US
Road-150 Red_48	111199.4670	Southwest	North America	US

Result 28 X

Output

Action Output

- Time Action Message Duration / Fatch
- 2 14:32:06 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Sto... 8 rows(s) returned 0.422 sec / 0.000 sec
- 3 14:32:13 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Inte... 9 rows(s) returned 0.406 sec / 0.000 sec
- 4 14:32:32 select YEAR(OrderDate) as OrderYearName, CONCAT('US',SUM(fis.LineTotal)) as SalesAmount from adventureworksdw.FCT_Sto... 8 rows(s) returned 0.734 sec / 0.000 sec
- 5 14:33:17 SELECT dimProd.Description, dimProd.type, SUM(dimFis.LineTotal)/100 AS Discount, SUM(dimFis.LineTotal)/100 AS Promoti... 4 rows(s) returned 0.609 sec / 0.000 sec
- 6 14:33:51 SELECT dimProd.Description, dimProd.type, SUM(dimFis.LineTotal)/100 AS Discount, SUM(dimFis.LineTotal)/100 AS Promoti... 12 rows(s) returned 0.485 sec / 0.000 sec
- 7 14:34:46 Select dp.ProductName as Product, SUM(fis.LineTotal) as SalesAmount, dst.TerritoryName, dst.SalesGroup, dst.CountryRegionCode ... 963 row(s) returned 0.531 sec / 0.000 sec

Activate Windows
Go to Settings to activate
0.609 sec / 0.000 sec

```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Query 1 AdventureWorksDW.MySQL* SQL File 2* SQL File 3* SQL File 4 DataIntegrationPart-2*
77 ORDER BY SUM(fis.LineTotal) DESC
78
79 • Select
80   dp.ProductName as Product,
81   SUM(fis.LineTotal) as SalesAmount,
82   dst.TerritoryName,
83   dst.SalesGroup,
84   dst.CountryRegionCode
85
86   From adventureworksdw.FCT_StoreSales fis
87   JOIN adventureworksdw.Dim_Product dp ON fis.ProductSK = dp.ProductSK
88   JOIN Dim_SalesTerritory dst ON dst.SalesTerritorySK = fis.SalesTerritorySK
89   GROUP BY
90     dp.ProductName,
91     dst.TerritoryName,
92     dst.SalesGroup,
93     dst.CountryRegionCode
94   ORDER BY SUM(fis.LineTotal) DESC
95

```

Result Grid

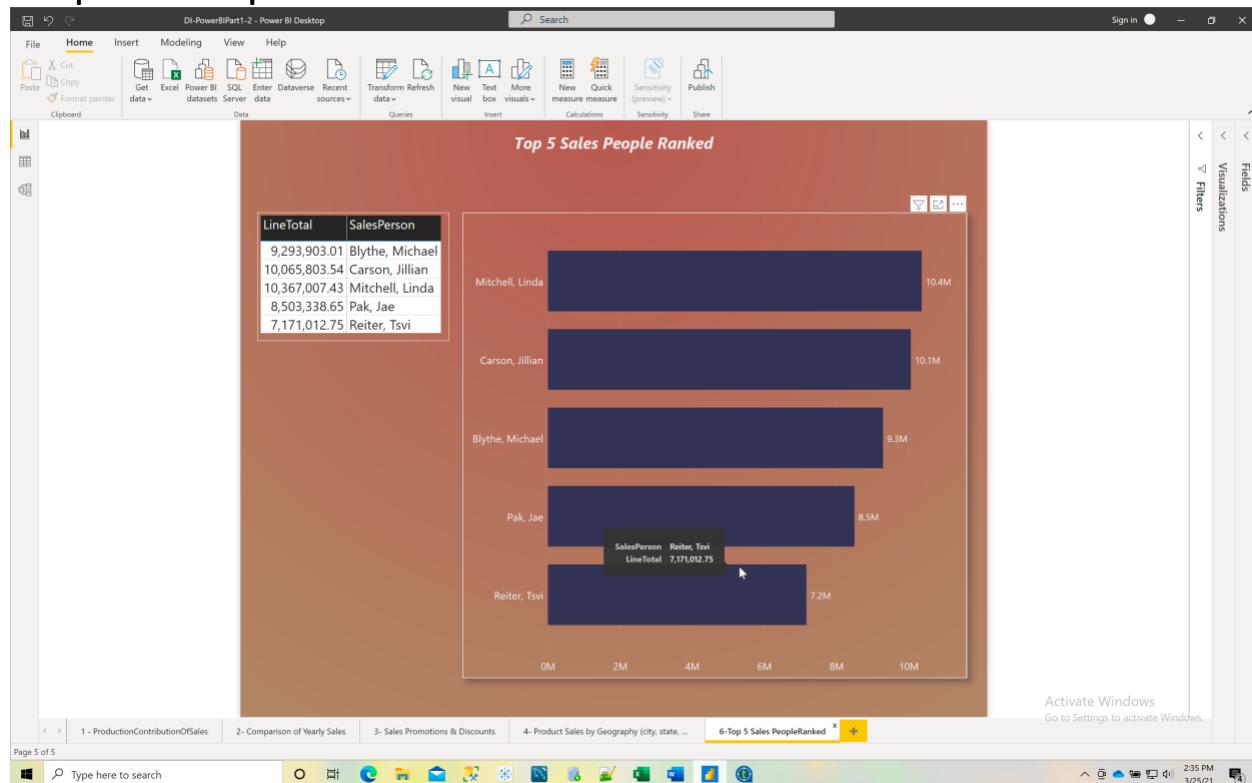
Product	SalesAmount	TerritoryName	SalesGroup	CountryRegionCode
Mountain-200 Black, 38	1288408.5542	Canada	North America	CA
Mountain-200 Black, 38	1222826.3930	Southwest	North America	US
Mountain-200 Black, 38	1175676.4000	Northeast	North America	US
Mountain-200 Black, 38	1123028.2008	Midwest	North America	US
Mountain-200 Black, 42	1032647.6106	Canada	North America	CA
Mountain-200 Black, 42	101265.0919	Northwest	North America	US
Road-250 Black, 44	995789.0388	Southwest	North America	US
Mountain-200 Silver, 38	988614.0308	Southwest	North America	US
Road-250 Black, 48	970238.5768	Southwest	North America	US
Mountain-200 Black, 46	962028.4097	Midwest	North America	US
Mountain-200 Black, 46	883755.4199	Southwest	North America	US
Mountain-200 Silver, 38	882657.7496	Canada	North America	CA
Mountain-200 Silver, 42	881934.9898	Northwest	North America	US
Mountain-200 Silver, 46	8545718.7347	Canada	North America	CA

Schema: adventureworksdw

Action Output

- 3 14:32:13 selected YEAR(OrderDate) as OrderYearName, CONCAT('SUM(fis.LineTotal) as SalesAmount from adventureworksdw.FCT_Interaction') as Message 9 row(s) returned Duration / Fetch 0.406 sec / 0.000 sec
- 4 14:32:32 selected YEAR(OrderDate) as OrderYearName, CONCAT('SUM(fis.LineTotal) as SalesAmount from adventureworksdw.FCT_StoreSales') as Message 8 row(s) returned 0.734 sec / 0.000 sec
- 5 14:32:17 SELECT dimprod.Description, dimprod.type, SUM(dimDiscPct * 100) AS Discount, SUM(fis.LineTotal)/100 AS Promotion %, SUM(fis.LineTotal)/100 AS SalesAmount 4 row(s) returned 0.609 sec / 0.000 sec
- 6 14:35:51 SELECT dimprod.Description, dimprod.type, SUM(dimDiscPct * 100) AS Discount, SUM(fis.LineTotal)/100 AS Promotion %, SUM(fis.LineTotal)/100 AS SalesAmount 12 row(s) returned 0.485 sec / 0.000 sec
- 7 14:34:46 Select dp.ProductName as Product, SUM(fis.LineTotal) as SalesAmount, dst.TerritoryName, dst.SalesGroup, dst.CountryRegionCode ... 953 row(s) returned 0.531 sec / 0.000 sec
- 8 14:35:22 Selected dp.ProductName as Product, SUM(fis.LineTotal) as SalesAmount, dst.TerritoryName, dst.SalesGroup, dst.CountryRegionCode ... 2211 row(s) returned 0.625 sec / 0.000 sec

6. Top 5 Sales People Ranked



Team4 | Spring 2021 | MS IS | INFO 7370 Sec 01 | Prof: Rick Sherman

The screenshot shows the MySQL Workbench interface with two query tabs open:

- Query 1:** AdventureWorksDW(MySQL*) - This tab contains SQL code for ranking salespeople and resellers. The code includes joins between fact tables and dimension tables like SalesPerson and Reseller.
- DataIntegrationPart-2:** This tab shows the results of the query. It displays a table titled "SalesPeople" with columns "SalesPerson" and "SalesAmount". The data includes rows for Mitchel, Linda, Carson, Allan, Bythe, Michael, Pals, Jim, Reiter, Erni, and Kettler, Tsai.

Result Grid:

SalesPerson	SalesAmount
Mitchel, Linda	2145535.5612
Carson, Allan	2087349.9126
Bythe, Michael	1913000.8732
Pals, Jim	1767501.0101
Reiter, Erni	1475442.1287

Result 30:

Action	Time	Action	Message	Duration / Fetch
4	14:32:32	selected YEAR(OrderDate) as OrderYearName, CONCAT(ds.LastName, ', ', ds.FirstName) as SalesPerson from adventureworksDW.FCT_StoreSales fs JOIN dimSalesperson ds on fs.SalesPersonSK = ds.SalesPersonSK	8 row(s) returned	0.734 sec / 0.000 sec
5	14:32:17	SELECT dimProm.Description, dimProm.type, SUM(dimProm.Pct * 100) AS Discount, SUM(fs.LineTotal)/100 AS Promotion %	4 row(s) returned	0.609 sec / 0.000 sec
6	14:33:51	SELECT dimProm.Description, dimProm.type, SUM(dimProm.Pct * 100) AS Discount, SUM(fs.LineTotal)/100 AS Promotion %	12 row(s) returned	0.488 sec / 0.000 sec
7	14:34:46	Select dp.ProductName as Product, SUM(fs.LineTotal) as SalesAmount, dt.TerritoryName, dt.SalesGroup, dt.CountryRegionCode	963 row(s) returned	0.531 sec / 0.000 sec
8	14:35:22	Select dp.ProductName as Product, SUM(fs.LineTotal) as SalesAmount, dt.TerritoryName, dt.SalesGroup, dt.CountryRegionCode	2211 row(s) returned	0.625 sec / 0.000 sec
9	14:36:01	selected CONCAT(ds.LastName, ', ', ds.FirstName) as SalesPerson, SUM(fs.LineTotal) as SalesAmount from FCT_StoreSales fs JOIN dimSalesperson ds on fs.SalesPersonSK = ds.SalesPersonSK	5 row(s) returned	0.437 sec / 0.000 sec