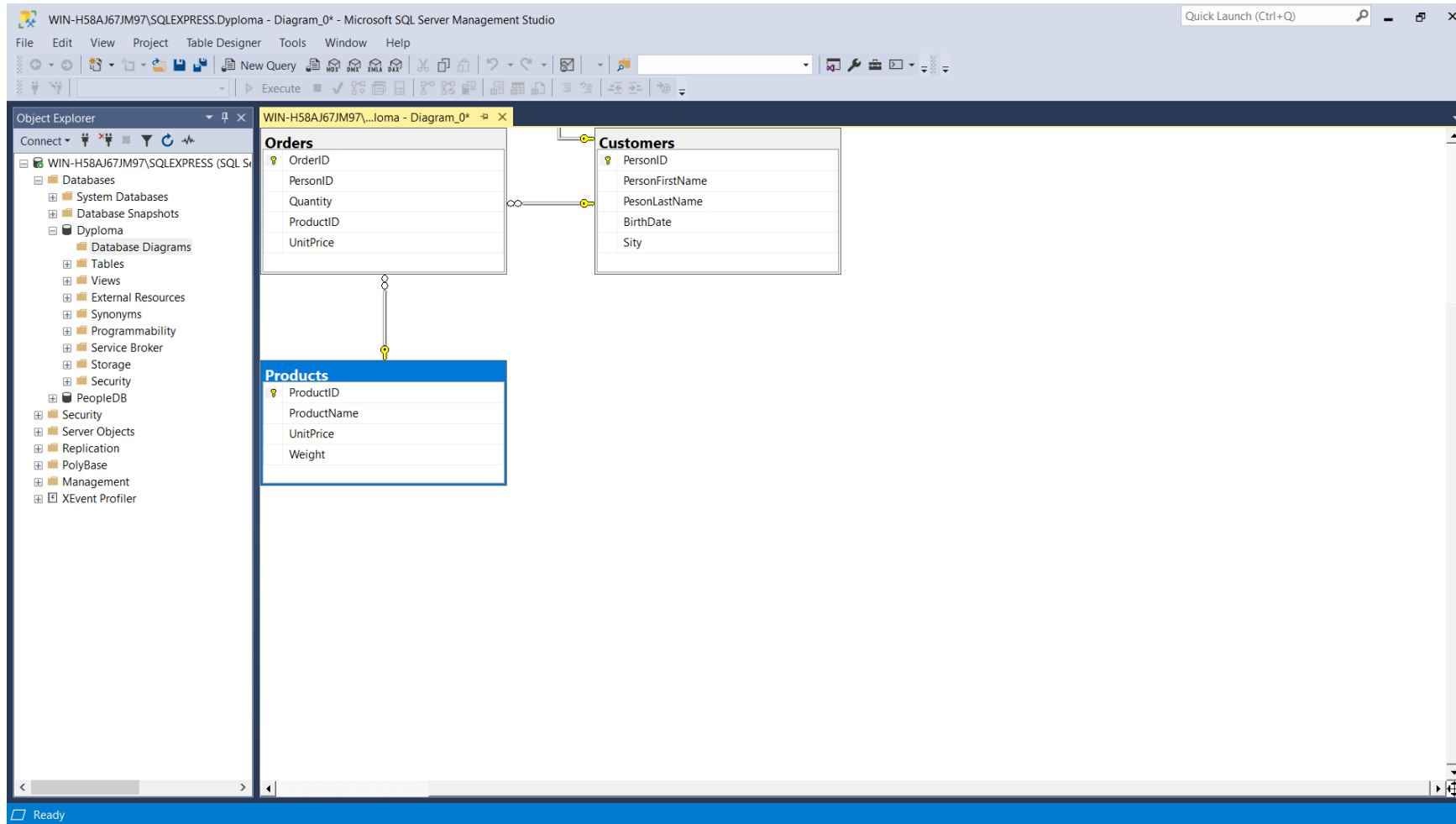


Database Diagram



Select all from Customers

The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the active window is 'SQLQuery1.sql - WIN-H58AJ67JM97\SQLEXPRESS.Diploma (WIN-H58AJ67JM97\user (62)) - Microsoft SQL Server Management Studio'. The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar contains various icons for file operations, query execution, and formatting. The Object Explorer on the left shows the database structure for 'Diploma', including System Databases, Database Snapshots, Tables (System Tables, FileTables, External Tables, Graph Tables, and user tables like dbo.Customers, dbo.Orders, and dbo.Products), Views, External Resources, Synonyms, Programmability, Service Broker, Storage, Security, and PeopleDB. The main query editor shows the SQL statement 'Select * from Customers'. The Results pane at the bottom displays the output of the query as a table with 10 rows. The status bar at the bottom indicates 'Query executed successfully.' and shows the execution time as '00:00:00' with '10 rows' returned.

SQLQuery1.sql - WIN-H58AJ67JM97\SQLEXPRESS.Diploma (WIN-H58AJ67JM97\user (62)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

Connect

WIN-H58AJ67JM97\SQLEXPRESS (SQL S

Databases

System Databases

Database Snapshots

Diploma

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.Customers

dbo.Orders

dbo.Products

Views

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

PeopleDB

Security

Server Objects

Replication

PolyBase

Management

XEvent Profiler

SQLQuery1.sql - WI...J67JM97\user (62))* WIN-H58AJ67JM97\...loma - Diagram_0*

Select * from Customers

100 %

Results Messages

| | PersonID | PersonFirstName | PesonLastName | BirthDate | Sity |
|----|----------|-----------------|---------------|-----------|--------------|
| 1 | 1 | Oleg | Syvak | 1980 | Ternopil |
| 2 | 2 | Yuriy | Prus | 1977 | Uzhorod |
| 3 | 3 | Yuriy | Klymyk | 1977 | Ternopil |
| 4 | 4 | Oleksandr | Teslyar | 1979 | Donetsk |
| 5 | 5 | Dana | Martynyak | 1980 | Simferopil |
| 6 | 6 | Nadiya | Markiv | 1981 | Khmelnytskoy |
| 7 | 7 | Oleg | Tsyurak | 1979 | Buchach |
| 8 | 8 | Vasyl | Starodub | 1996 | Lutsk |
| 9 | 9 | Olga | Syvak | 1980 | Ternopil |
| 10 | 10 | Olga | Vicenta | 2001 | Kozova |

Query executed successfully.

WIN-H58AJ67JM97\SQLEXPRESS ... WIN-H58AJ67JM97\user (62) | Diploma | 00:00:00 | 10 rows

Ready Ln 1 Col 24 Ch 24 INS

Select all from Products

The screenshot displays the Microsoft SQL Server Management Studio interface. The title bar indicates the connection to 'SQLQuery1.sql - WIN-H58AJ67JM97\SQLEXPRESS.Dyploma (WIN-H58AJ67JM97\user (62))* - Microsoft SQL Server Management Studio'. The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar contains various icons for file operations, query execution, and navigation. The Object Explorer on the left shows the database structure for 'Dyploma', including System Databases, Database Snapshots, Tables (System Tables, FileTables, External Tables, Graph Tables, and user tables like dbo.Customers, dbo.Orders, and dbo.Products), Views, External Resources, Synonyms, Programmability, Service Broker, Storage, Security, and PeopleDB. The main query editor shows the SQL statement 'Select * from Products'. The Results pane at the bottom displays the query output as a table with 12 rows and 4 columns: ProductID, ProductName, UnitPrice, and Weight. A status bar at the bottom indicates 'Query executed successfully.' and shows the execution time as 00:00:00 with 12 rows returned.

| ProductID | ProductName | UnitPrice | Weight |
|-----------|---------------------------------------|-----------|--------|
| 1 | Chocolate Bar Bitter 85% Cocoa | 1.49 | 3.5 |
| 2 | Chocolate Bar Bitter 72% Cocoa | 1.49 | 3.5 |
| 3 | Feta Cheese for Salad | 2.49 | 8.82 |
| 4 | Sweet Cream Butter 72.5% | 2.99 | 6.3 |
| 5 | Organic Pure Honey From Wildflowers | 4.99 | 12 |
| 6 | Traditional Pasta Sauce No Salt Added | 0.99 | 23 |
| 7 | Green Tea Cranberry Pomegranate 20 ct | 2.49 | 1.5 |
| 8 | Pure Green Tea 100% Natural 20 ct | 2.49 | 1 |
| 9 | Hot Cereal Gluten Free | 3.29 | 14 |
| 10 | Homemade Oatmeal Cookies with Raisins | 2.99 | 14.82 |
| 11 | Ground Espresso Coffee Medium Roast | 11.99 | 8 |
| 12 | New Mango Peach Preserves | 3.99 | 13 |

Select all from Orders

The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The main window shows a query editor with the text `Select * from Orders`. The query has been executed successfully, as indicated by the status bar at the bottom: "Query executed successfully. WIN-H58AJ67JM97\SQLEXPRESS ... WIN-H58AJ67JM97\user (53) Diploma 00:00:00 10 rows".

The Object Explorer on the left shows the database structure for the 'Diploma' database, including tables like `dbo.Customers`, `dbo.Orders`, and `dbo.Products`.

The Results pane at the bottom displays the data returned by the query, showing 10 rows of order information:

| | OrderID | PersonID | Quantity | ProductID | UnitPrice |
|----|---------|----------|----------|-----------|-----------|
| 1 | 1 | 1 | 3 | 2 | 1.49 |
| 2 | 2 | 6 | 10 | 7 | 2.49 |
| 3 | 3 | 9 | 1 | 11 | 11.99 |
| 4 | 4 | 2 | 5 | 2 | 1.49 |
| 5 | 5 | 5 | 1 | 11 | 11.99 |
| 6 | 6 | 8 | 2 | 4 | 2.99 |
| 7 | 7 | 3 | 4 | 1 | 1.49 |
| 8 | 8 | 4 | 10 | 5 | 4.99 |
| 9 | 9 | 10 | 2 | 9 | 3.29 |
| 10 | 10 | 7 | 3 | 11 | 11.99 |

The Properties pane on the right shows the current connection parameters and aggregate status, including connection failures, elapsed time, finish time, name, rows returned, start time, state, connection name, connection details, and session tracing ID.

Use RIGHT JOIN

The screenshot displays the Microsoft SQL Server Management Studio interface. The main query window shows a SQL query using a RIGHT JOIN to retrieve data from the Orders and Products tables. The Object Explorer on the left shows the database structure, including the dbo.Orders and dbo.Products tables. The Results pane at the bottom shows the output of the query, which includes 15 rows of data. The Properties pane on the right shows the connection details for the current session.

SQL Query:

```
SELECT Orders.OrderID, Products.ProductName FROM Orders RIGHT JOIN Products
ON Orders.ProductID = Products.ProductID
```

Query Results:

| OrderID | ProductName |
|---------|---------------------------------------|
| 7 | Chocolate Bar Bitter 85% Cocoa |
| 1 | Chocolate Bar Bitter 72% Cocoa |
| 4 | Chocolate Bar Bitter 72% Cocoa |
| NULL | Feta Cheese for Salad |
| 6 | Sweet Cream Butter 72.5% |
| 8 | Organic Pure Honey From Wildflowers |
| NULL | Traditional Pasta Sauce No Salt Added |
| 2 | Green Tea Cranberry Pomegranate 20 ct |
| NULL | Pure Green Tea 100% Natural 20 ct |
| 9 | Hot Cereal Gluten Free |
| NULL | Homemade Oatmeal Cookies with Raisins |
| 3 | Ground Espresso Coffee Medium Roast |
| 5 | Ground Espresso Coffee Medium Roast |
| 10 | Ground Espresso Coffee Medium Roast |
| NULL | New Mango Peach Preserves |

Connection Properties:

- Current connection parameters
- Aggregate Status
 - Connection failures
 - Elapsed time: 00:00:00.077
 - Finish time: 18/10/2021 18:40:13
 - Name: WIN-H58AJ67JM97\SQI
 - Rows returned: 15
 - Start time: 18/10/2021 18:40:13
 - State: Open
- Connection
 - Connection name: WIN-H58AJ67JM97\SQI
- Connection Details
 - Connection elapsed: 00:00:00.077
 - Connection encrypt: Not encrypted
 - Connection finish ti: 18/10/2021 18:40:13
 - Connection rows re: 15
 - Connection start tir: 18/10/2021 18:40:13
 - Connection state: Open
 - Display name: WIN-H58AJ67JM97\SQI
 - Login name: WIN-H58AJ67JM97\use
 - Server name: WIN-H58AJ67JM97\SQI
 - Server version: 15.0.2080
 - Session Tracing ID
 - SPID: 54

Status Bar: Query executed successfully. WIN-H58AJ67JM97\SQLEXPRESS ... WIN-H58AJ67JM97\user (54) | Diploma | 00:00:00 | 15 rows

Use FULL and INNER JOIN

SQLQuery1.sql - WIN-H58AJ67JM97\SQLEXPRESS.Dyploma (WIN-H58AJ67JM97\user (54))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

- WIN-H58AJ67JM97\SQLEXPRESS (SQL Server)
- Databases
 - System Databases
 - Database Snapshots
 - Dyploma
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Customers
 - dbo.Orders
 - dbo.Products
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - PeopleDB
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Management
 - XEvent Profiler

SQLQuery1.sql - WIN-H58AJ67JM97\user (54)*

```
SELECT Orders.OrderID, Orders.PersonID, Products.ProductName, Orders.Quantity FROM Orders full JOIN Products
ON Orders.OrderID = Products.ProductID

SELECT Orders.OrderID, Orders.PersonID, Products.ProductName, Orders.Quantity FROM Orders INNER JOIN Products
ON Orders.OrderID = Products.ProductID
```

100 %

Results Messages

| | OrderID | PersonID | ProductName | Quantity |
|----|---------|----------|---------------------------------------|----------|
| 1 | 1 | 1 | Chocolate Bar Bitter 85% Cocoa | 3 |
| 2 | 2 | 6 | Chocolate Bar Bitter 72% Cocoa | 10 |
| 3 | 3 | 9 | Feta Cheese for Salad | 1 |
| 4 | 4 | 2 | Sweet Cream Butter 72.5% | 5 |
| 5 | 5 | 5 | Organic Pure Honey From Wildflowers | 1 |
| 6 | 6 | 8 | Traditional Pasta Sauce No Salt Added | 2 |
| 7 | 7 | 3 | Green Tea Cranberry Pomegranate 20 ct | 4 |
| 8 | 8 | 4 | Pure Green Tea 100% Natural 20 ct | 10 |
| 9 | 9 | 10 | Hot Cereal Gluten Free | 2 |
| 10 | 10 | 7 | Homemade Oatmeal Cookies with Raisins | 3 |
| 11 | NULL | NULL | Ground Espresso Coffee Medium Roast | NULL |
| 12 | NULL | NULL | New Mango Peach Preserves | NULL |

| | OrderID | PersonID | ProductName | Quantity |
|----|---------|----------|---------------------------------------|----------|
| 1 | 1 | 1 | Chocolate Bar Bitter 85% Cocoa | 3 |
| 2 | 2 | 6 | Chocolate Bar Bitter 72% Cocoa | 10 |
| 3 | 3 | 9 | Feta Cheese for Salad | 1 |
| 4 | 4 | 2 | Sweet Cream Butter 72.5% | 5 |
| 5 | 5 | 5 | Organic Pure Honey From Wildflowers | 1 |
| 6 | 6 | 8 | Traditional Pasta Sauce No Salt Added | 2 |
| 7 | 7 | 3 | Green Tea Cranberry Pomegranate 20 ct | 4 |
| 8 | 8 | 4 | Pure Green Tea 100% Natural 20 ct | 10 |
| 9 | 9 | 10 | Hot Cereal Gluten Free | 2 |
| 10 | 10 | 7 | Homemade Oatmeal Cookies with Raisins | 3 |

Query executed successfully.

WIN-H58AJ67JM97\SQLEXPRESS ... WIN-H58AJ67JM97\user (54) Dyploma 00:00:00 22 rows

Ready Ln 5 Col 40 Ch 40 INS

11°C Mostly cloudy 11:06 21/10/2021

