

UNIVERSIDAD DON BOSCO

ESCUELA DE COMPUTACIÓN

DESAFIO PRACTICO

MATERIA: Datawarehouse y Minería de Datos

GRUPO LABORATORIO: G01L

NOMBRE DEL DOCENTE:

Ing. Alexander Sigüenza

Integrantes:

| No. | Apellidos, nombres | Carné |
|-----|---------------------------------|----------|
| 1 | Teos Arévalo, Romeo Alejandro | TA191376 |
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EJERCICIO 1

Cubo con los datos solicitados

The screenshot shows the SQL Server Enterprise Designer interface. The main window displays the 'Northwind Data Mart.cube' with the following dimensions and measures:

| Dimensión | Jerarquia | Operador | Expresión de filtro | Parámetros |
|-------------------------|-----------|----------|---------------------|------------|
| «Seleccionar dimensión» | | | | |

The measures are listed in the left pane:

- Measures
- KPI
- Cuente
- Id
- Nombre
- Pais
- Empleado
- Apellido
- Proveedor
- Id
- Pais
- Tiempo

The data table shows the following columns:

| Nombre | Pais | Apellido | Pais | Nombre | Categoría | Cantidad | Precio |
|------------------|---------|-----------|-------------|-------------------------------|----------------|----------|--------|
| Alejandra Camino | Spain | Davolo | Australia | Perth Pastes | Meat/Poultry | 10 | 262 |
| Alejandra Camino | Spain | Davolo | Canada | Tourtière | Meat/Poultry | 5 | 29.5 |
| Alejandra Camino | Spain | Peacock | Germany | Nord-Ost Matjeshering | Seafood | 10 | 207 |
| Alejandra Camino | Spain | Peacock | Brazil | Guaraná Fantástica | Beverages | 6 | 21.6 |
| Alejandra Camino | Spain | Peacock | France | Camembert Pierrot | Dairy Products | 10 | 340 |
| Alejandra Camino | Spain | Peacock | Germany | Nord-Ost Matjeshering | Seafood | 7 | 150.09 |
| Alejandra Camino | Spain | Peacock | Italy | Ravioli Angelo | Grains/Cereals | 2 | 31.2 |
| Alejandra Camino | Spain | Peacock | UK | Treatime Chocolate Biscuits | Confections | 1 | 7.3 |
| Alejandra Camino | Spain | Peacock | USA | Steeleye Stout | Beverages | 4 | 57.6 |
| Alexander Feuer | Germany | Buchanan | Australia | Vegie-spread | Condiments | 6 | 263.4 |
| Alexander Feuer | Germany | Buchanan | Finland | Lakkalioori | Beverages | 10 | 180 |
| Alexander Feuer | Germany | Buchanan | France | Rackette Courdvaux | Dairy Products | 12 | 660 |
| Alexander Feuer | Germany | Buchanan | Italy | Mozzarella di Giovanni | Dairy Products | 30 | 1044 |
| Alexander Feuer | Germany | Leverling | Australia | Pavlova | Confections | 20 | 349 |
| Alexander Feuer | Germany | Leverling | Canada | Tarte au sucre | Confections | 20 | 986 |
| Alexander Feuer | Germany | Leverling | Netherlands | Zaanse koeken | Confections | 12 | 114 |
| Alexander Feuer | Germany | Peacock | Italy | Gorgonzola Telino | Dairy Products | 10 | 125 |
| Alexander Feuer | Germany | Peacock | Japan | Konbu | Seafood | 20 | 120 |
| Ana Trujillo | Mexico | King | Australia | Outback Lager | Beverages | 5 | 60 |
| Ana Trujillo | Mexico | King | Norway | Gudbrandsdalsost | Dairy Products | 1 | 28.8 |
| Ana Trujillo | Mexico | Leverling | France | Camembert Pierrot | Dairy Products | 10 | 340 |
| Ana Trujillo | Mexico | Leverling | Italy | Mascarpone Fabbol | Dairy Products | 10 | 320 |
| Ana Trujillo | Mexico | Leverling | Japan | Tofu | Produce | 3 | 69.75 |
| Ana Trujillo | Mexico | Leverling | Singapore | Singaporean Hokkien Fried ... | Grains/Cereals | 5 | 70 |
| Ana Trujillo | Mexico | Peacock | Italy | Mozzarella di Giovanni | Dairy Products | 10 | 348 |

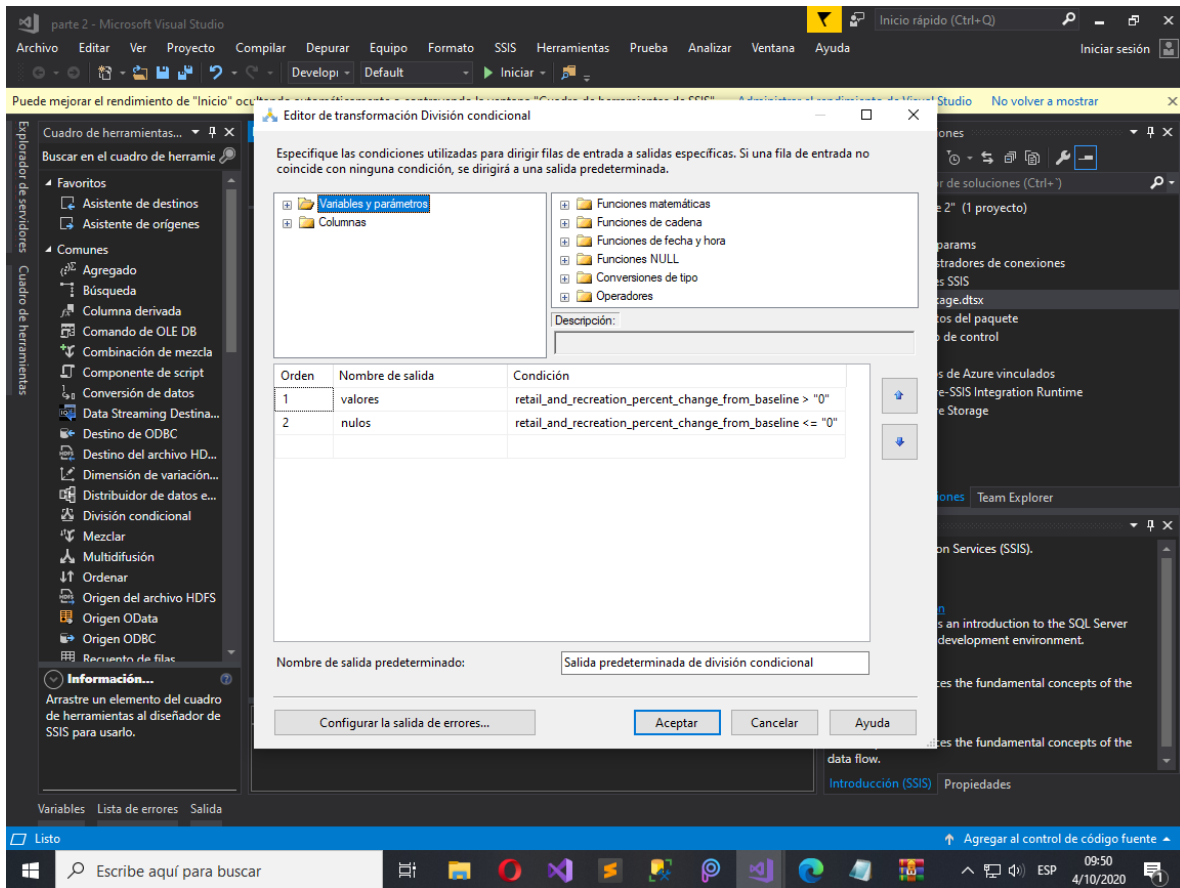
Concatenando las 2 columnas

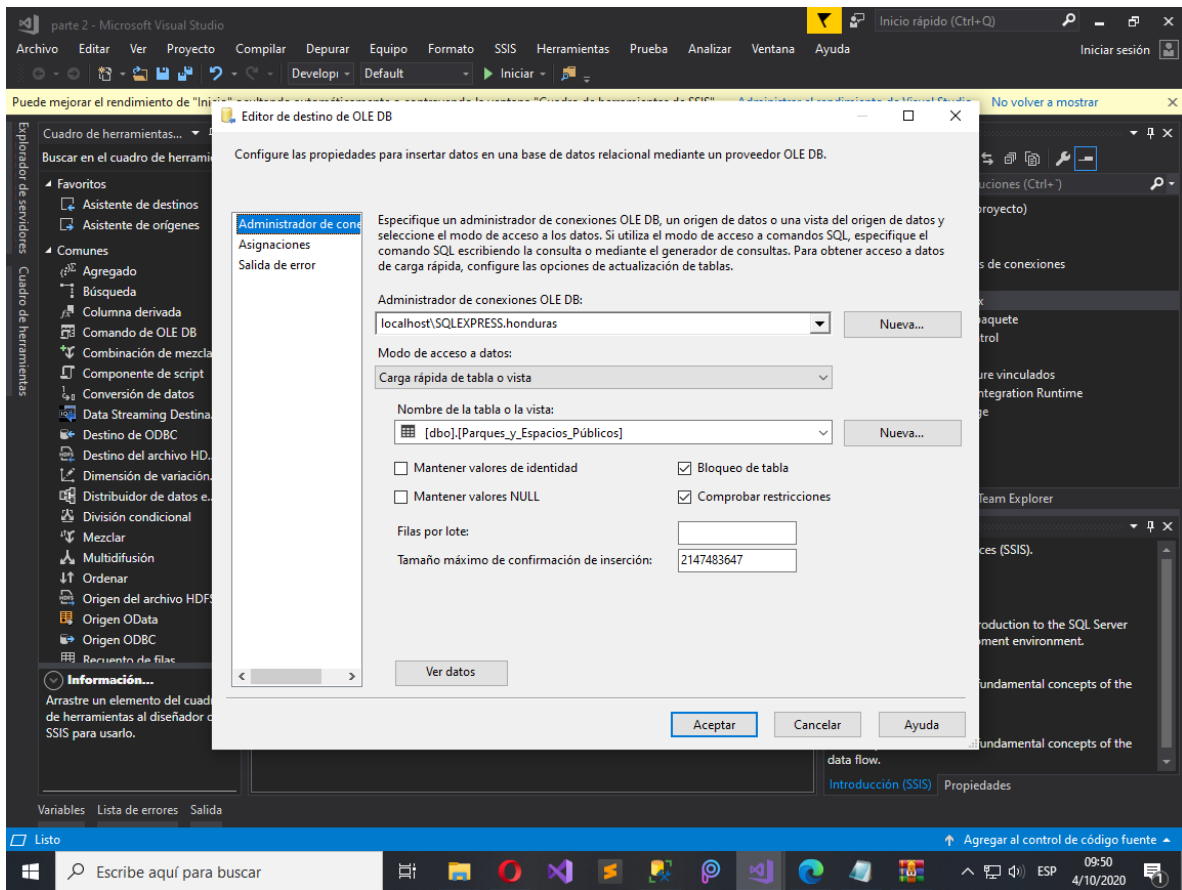
The screenshot shows the SQL Server Enterprise Designer interface. The main window displays the 'Explorar la tabla Producto' table with the following columns:

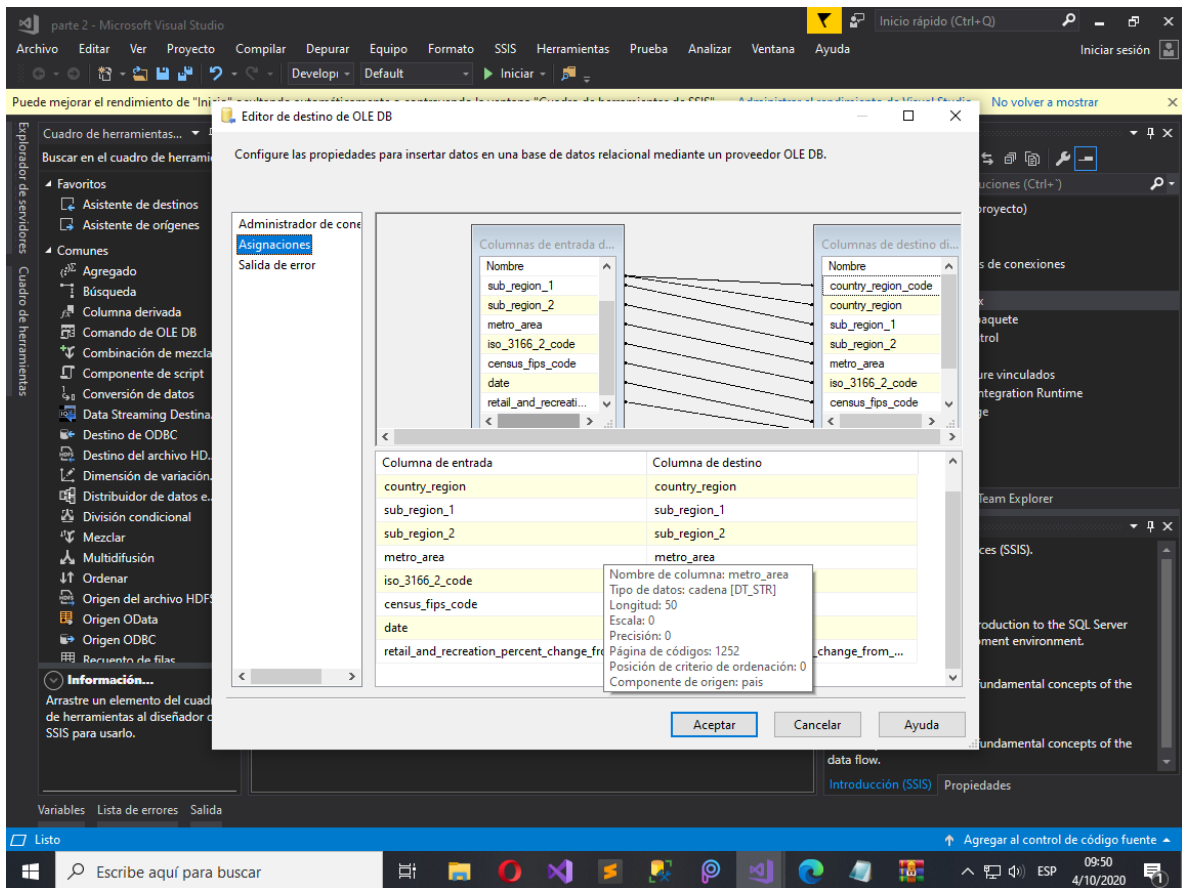
| id | nombre | categoría | CatProducto |
|----|--------------------------------|----------------|---|
| 1 | Alice Mutton | Meat/Poultry | Meat/Poultry - Alice Mutton |
| 2 | Aniseed Syrup | Condiments | Condiments - Aniseed Syrup |
| 3 | Boston Crab Meat | Seafood | Seafood - Boston Crab Meat |
| 4 | Camembert Pierrot | Dairy Products | Dairy Products - Camembert Pierrot |
| 5 | Carnarvon Tigers | Seafood | Seafood - Carnarvon Tigers |
| 6 | Chai | Beverages | Beverages - Chai |
| 7 | Chang | Beverages | Beverages - Chang |
| 8 | Chartreuse verte | Beverages | Beverages - Chartreuse verte |
| 9 | Chef Anton's Cajun Seasoning | Condiments | Condiments - Chef Anton's Cajun Seasoning |
| 10 | Chef Anton's Gumbo Mix | Condiments | Condiments - Chef Anton's Gumbo Mix |
| 11 | Chocolade | Confections | Confections - Chocolade |
| 12 | Côte de Blaye | Beverages | Beverages - Côte de Blaye |
| 13 | Escargots de Bourgogne | Seafood | Seafood - Escargots de Bourgogne |
| 14 | Filo Mix | Grains/Cereals | Grains/Cereals - Filo Mix |
| 15 | Flotemysost | Dairy Products | Dairy Products - Flotemysost |
| 16 | Gelost | Dairy Products | Dairy Products - Gelost |
| 17 | Genen Shouyu | Condiments | Condiments - Genen Shouyu |
| 18 | Gnocchi di nonna Alice | Grains/Cereals | Gnocchi di nonna Alice |
| 19 | Gorgonzola Telino | Dairy Products | Dairy Products - Gorgonzola Telino |
| 20 | Grandma's Boysenberry Spread | Condiments | Condiments - Grandma's Boysenberry Spread |
| 21 | Gravad lax | Seafood | Seafood - Gravad lax |
| 22 | Guaraná Fantástica | Beverages | Beverages - Guaraná Fantástica |
| 23 | Gudbrandsdalsost | Dairy Products | Dairy Products - Gudbrandsdalsost |
| 24 | Gula Malacca | Condiments | Condiments - Gula Malacca |
| 25 | Gumbär Gummiabäcken | Confections | Confections - Gumbär Gummiabäcken |
| 26 | Gustaf's Knäckebröd | Grains/Cereals | Grains/Cereals - Gustaf's Knäckebröd |
| 27 | Ilura | Seafood | Seafood - Ilura |
| 28 | Inlagd Sill | Seafood | Seafood - Inlagd Sill |
| 29 | Ispoh Coffee | Beverages | Beverages - Ispoh Coffee |
| 30 | Jack's New England Clam Cho... | Seafood | Seafood - Jack's New England Clam Chowder |
| 31 | Konbu | Seafood | Seafood - Konbu |
| 32 | Korv | Seafood | Seafood - Korv |

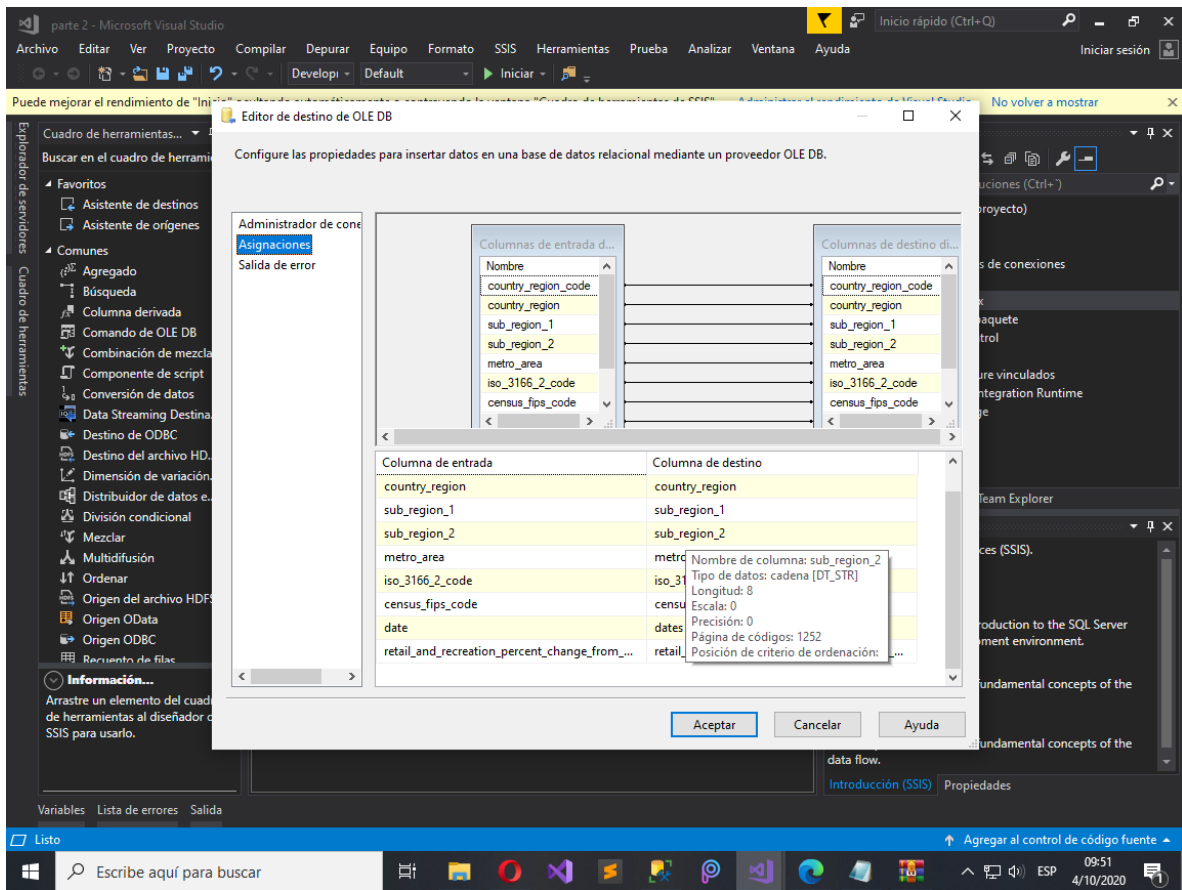
Ejercicio 2

-Creación de etl









Microsoft Visual Studio interface showing a SQL Server Integration Services (SSIS) package design.

Top Bar: File (Archivo), Edit (Editar), View (Ver), Project (Proyecto), Compile (Compilar), Debug (Depurar), Tools (Equipo), Format (Formato), SSIS, Tools (Herramientas), Test (Prueba), Analyze (Analizar), Window (Ventana), Help (Ayuda). A yellow banner at the top states: "La falta de respuesta durante 7 segundos probablemente se deba a la extensión 'Microsoft Integration Services Projects 2.7'. Si la deshabilita, puede que mejore su experiencia." with links to "Deshabilitar esta extensión", "Más información", and "No volver a mostrar este mensaje".

Left Panel (Toolbox): Contains various SSIS tasks and components such as "Agregar", "Búsqueda", "Columna derivada", "Comando de OLE DB", "Combinación de mezcla", "Componente de script", "Conversión de datos", "Data Streaming Destina...", "Destino de ODBC", "Destino del archivo HD...", "Dimensión de variación...", "Distribuidor de datos e...", "División condicional", "Mezclar", "Multidifusión", "Ordenar", "Origen del archivo HDFS", "Origen OData", and "Origen ODBC".

Center Canvas: Displays the SSIS package design for "Package.dtsx [Diseño]". The task "Tarea Flujo de datos: Parques y Espacios Públicos" is selected. The design shows a "pais" data source connected to a "División condicional" (Conditional Split) task. The split task has two outputs: "valores" (connected to a "valores" data destination) and "nulos" (connected to a "nulos" data destination). Below the canvas, the "Administradores de conexiones" (Connection Managers) section shows "honduras" and "localhost\SQLEXPRESS.Hondura1".

Right Panel (Solution Explorer): Shows the project structure for "Solución 'parte 2' (1 proyecto)". The project "parte 2" contains files like "Project.params", "Administradores de conexiones", "Paquetes SSIS", "Package.dtsx", "Elementos del paquete", "Flujo de control", "Varios", and "Recursos de Azure vinculados". Below the Solution Explorer, the "Introducción (SSIS)" (Introduction to SSIS) page is displayed, featuring a "Muestras" (Samples) section with links to "My First SSIS Solution", "Control Flow Basics", and "Data Flow Basics".

Bottom Bar: Includes a search bar "Escribe aquí para buscar", a taskbar with various application icons, and a system tray showing the date and time (06:57, 5/10/2020).

parte 2 (Ejecución) - Microsoft Visual Studio

Archivo Editar Ver Proyecto Compilar Depurar Equipo Formato SSIS Herramientas Prueba Analizar Ventana Ayuda Iniciar sesión

Proceso: [13984] DtsDebugHost.exe Eventos del ciclo de vida Subproceso: Marco de pila:

Puede mejorar el rendimiento de "Inicio" ocultando automáticamente o contrayendo la ventana "Cuadro de herramientas de SSIS". Administrar el rendimiento de Visual Studio No volver a mostrar

Package.dtsx [Diseño]

Flujo de control Flujo de datos Parámetros Controladores de eventos Explorador de paquetes Progreso

Parques y Espacios Públicos Tiendas, Supermercados y Farmacias

Comercio y Recreación Tránsito

Lugares de Trabajo Lugar de Residencia

Truncation may occur due to inserting data from data flow column "grocery_and_pharmacy_percent_chang...

Administradores de conexiones

pais localhost\SQLEXPRESS.honduras honduras

La ejecución del paquete se completó correctamente. Haga clic aquí para pasar al modo de diseño o seleccione Detener depuración en el menú Depuración.

Inspección 1

| Nombre | Valor | Tipo |
|--------|-------|------|
|--------|-------|------|

Pila de llamadas

| Nombre | Leng |
|--------|------|
|--------|------|

Automático Variables locales Inspección 1 Pila de llamadas Puntos de inter... Configuración... Ventana Coma... Ventana Inmedi... Salida

Listo Escribe aquí para buscar

09:51 4/10/2020

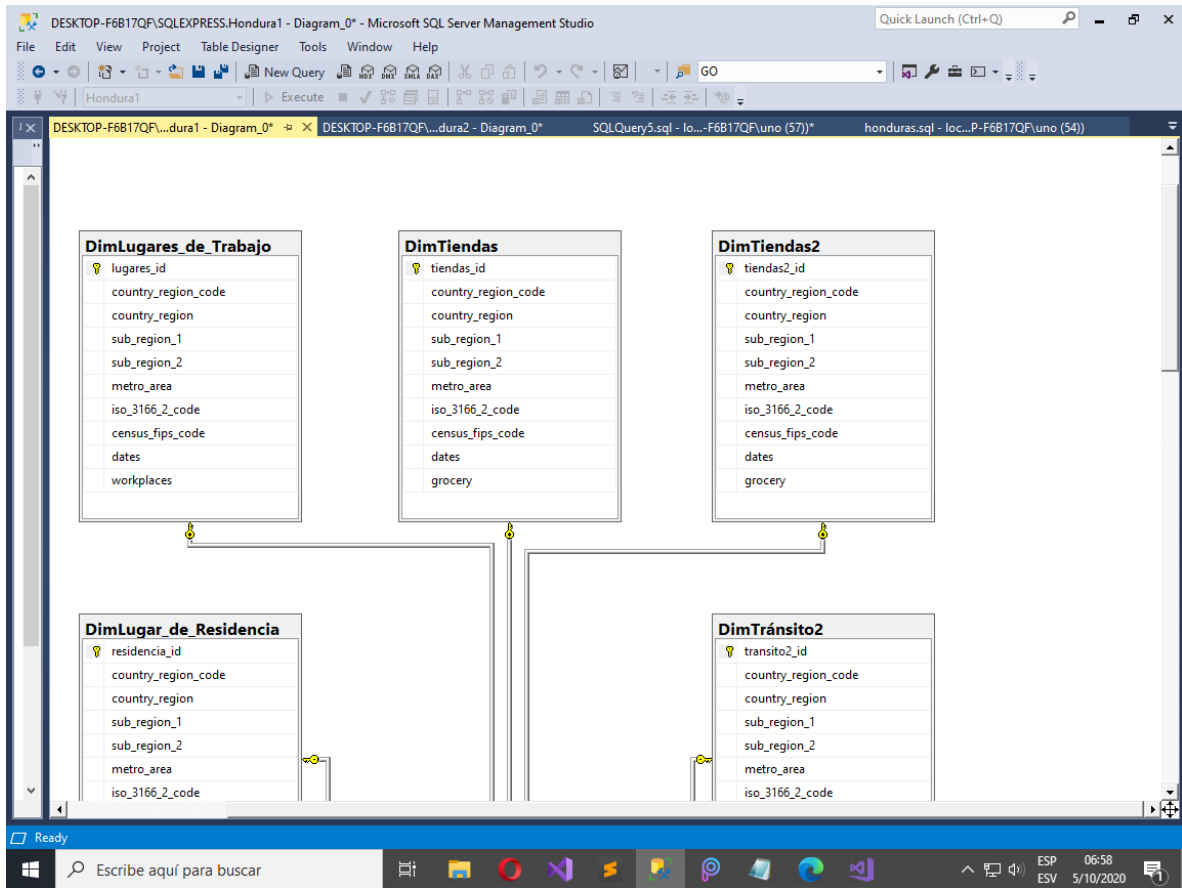
-Datos en la base

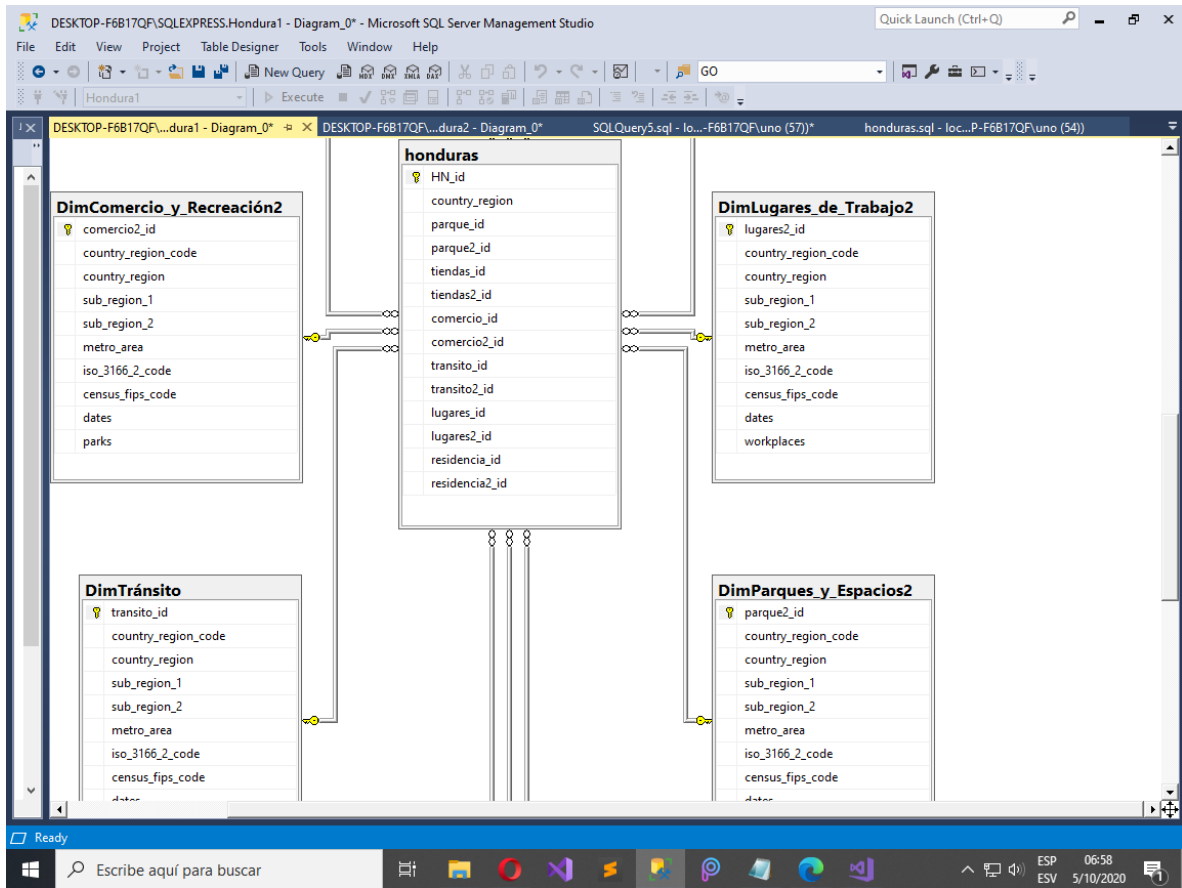
The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The main window shows a SQL query being executed. The query creates a database named 'Hondura1' and a table named 'DimParques_y_Espacios' with various columns and constraints. The results pane shows the output of the query, which includes a list of rows with columns: residencia2_id, country_region_code, country_region, sub_region_1, sub_region_2, metro_area, iso_3166_2_code, census_fips_code, and dates.

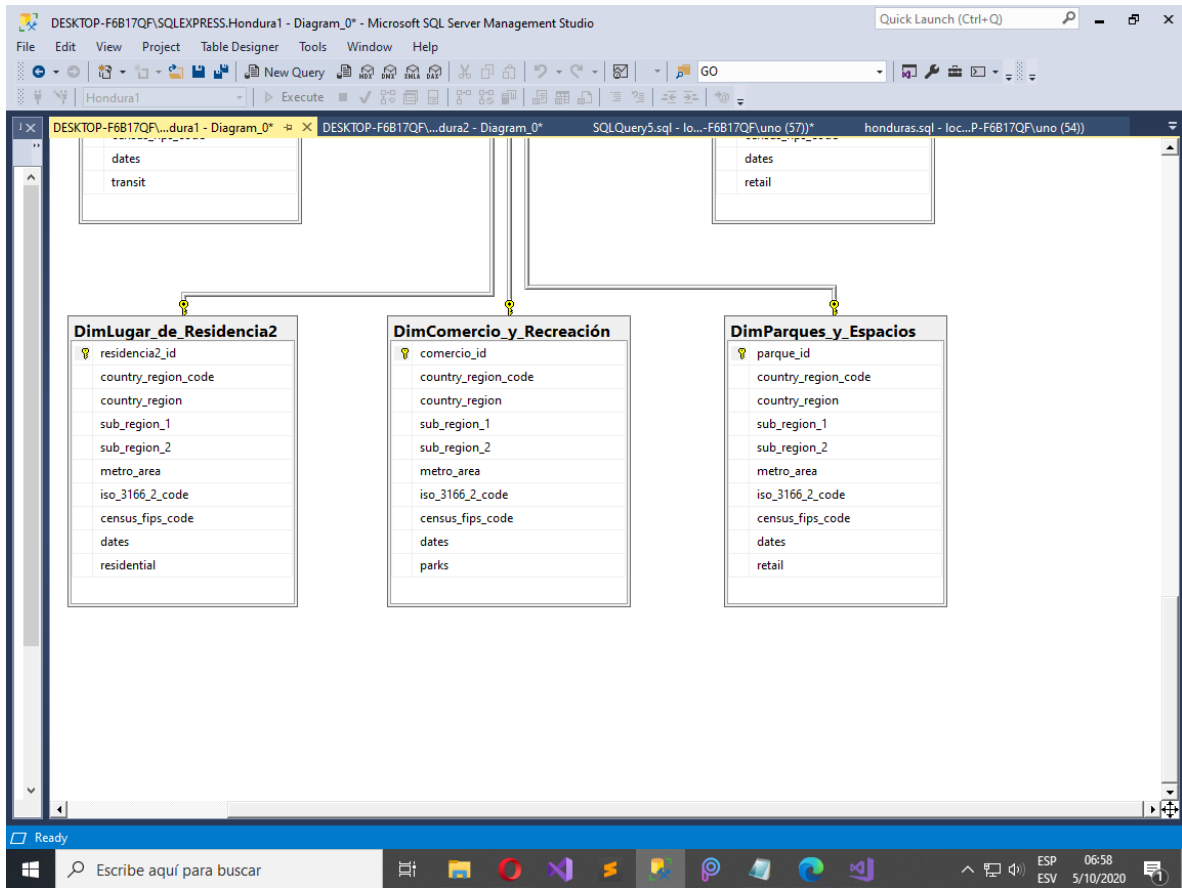
```
CREATE DATABASE Hondura1;
GO
USE [Hondura1]
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
SET ANSI_PADDING ON
GO
CREATE TABLE [dbo].[DimParques_y_Espacios](
    [parque_id] [int] IDENTITY(1,1) NOT NULL,
    [country_region_code] [varchar](30) NOT NULL,
    [country_region] [varchar](30) NOT NULL,
    [sub_region_1] [varchar](30) NOT NULL,
    [sub_region_2] [varchar](30) NOT NULL,
    [metro_area] [varchar](30) NOT NULL,
    [iso_3166_2_code] [varchar](30) NOT NULL,
    [census_fips_code] [varchar](30) NOT NULL,
    [dates] [date] NOT NULL,
    [retail] [varchar](30) NOT NULL,
    CONSTRAINT [PK_DimParques_y_Espacios] PRIMARY KEY CLUSTERED
)
```

| residencia2_id | country_region_code | country_region | sub_region_1 | sub_region_2 | metro_area | iso_3166_2_code | census_fips_code | dates |
|----------------|---------------------|----------------|----------------------|--------------|------------|-----------------|------------------|------------|
| 10 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-02-21 |
| 11 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-02-23 |
| 12 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-02-26 |
| 13 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-03-01 |
| 14 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-03-08 |
| 15 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-03-10 |
| 16 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-03-13 |
| 17 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-03-15 |
| 18 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-03-17 |
| 19 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-03-18 |
| 20 | HN | Honduras | Atlántida Department | | | HN-AT | | 2020-03-19 |

Query executed successfully. | localhost\SQLEXPRESS (15.0 ... | DESKTOP-F6B17QF\uno (57) | Hondura1 | 00:00:00 | 28,425 rows







-Implementación y procesamiento del cubo

