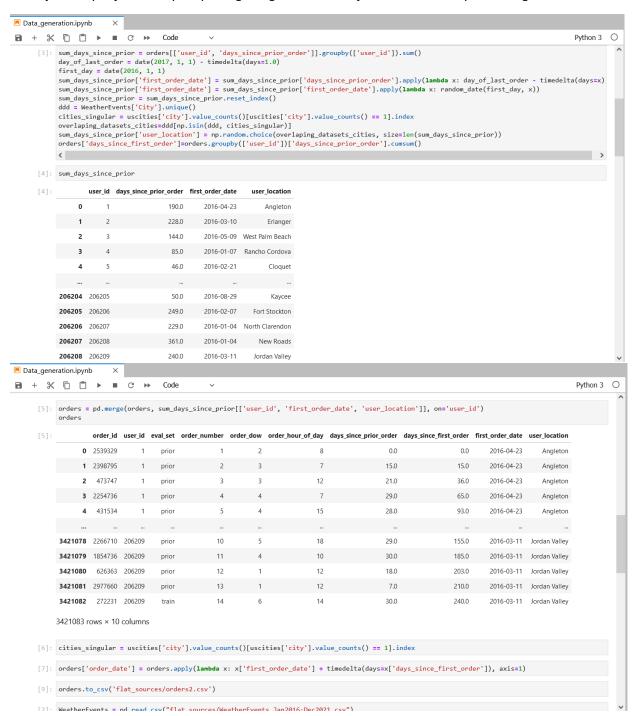
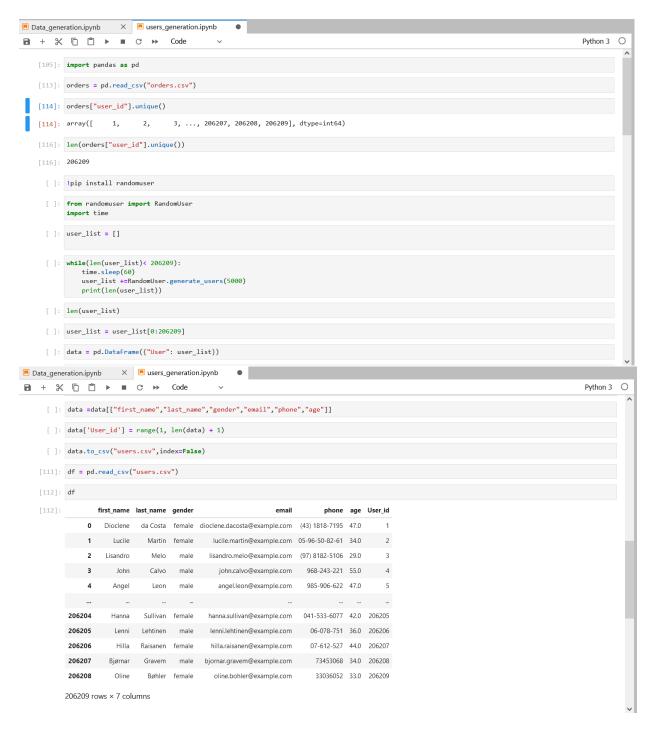
# **Testy Funkcjonalne**

Zespół Danonkowych Żółwi Ninja <u>m</u>: Katarzyna Solawa i Mateusz Sperkowski

#### **Generowanie Danych**

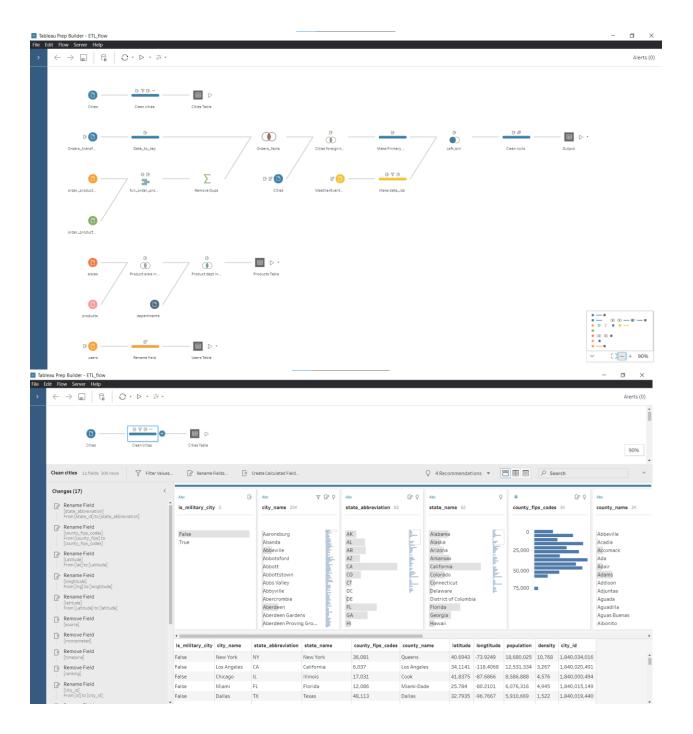
Poniżej widzimy część kodu wykorzystanego do generowania częściowo losowo danych oraz tego skutki.

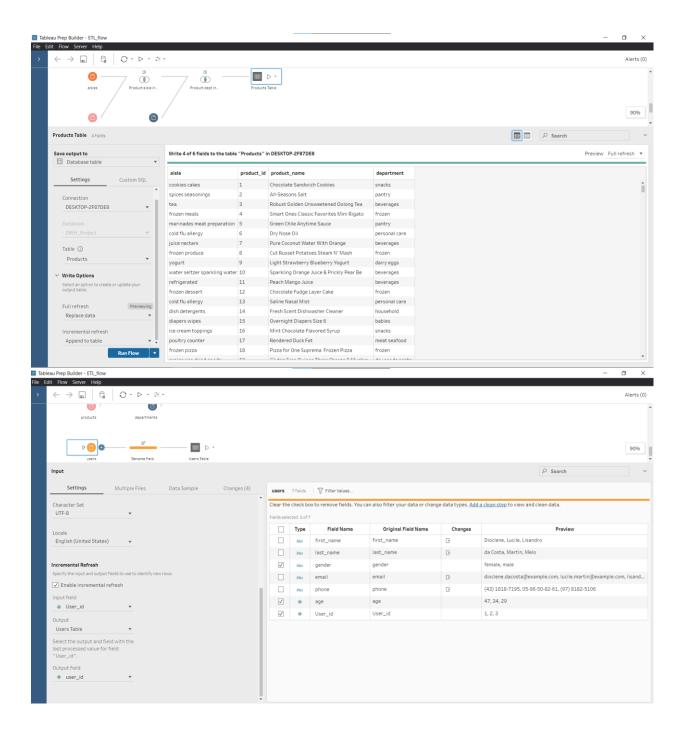


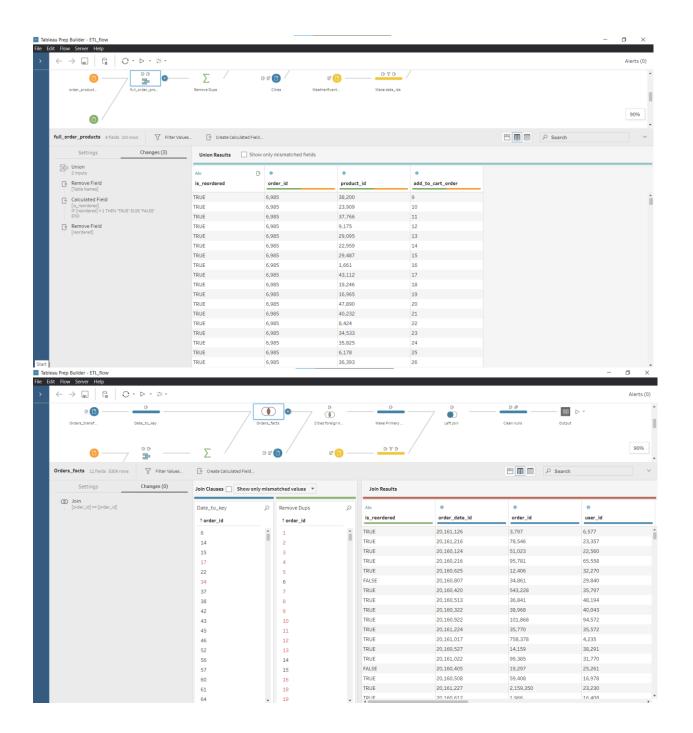


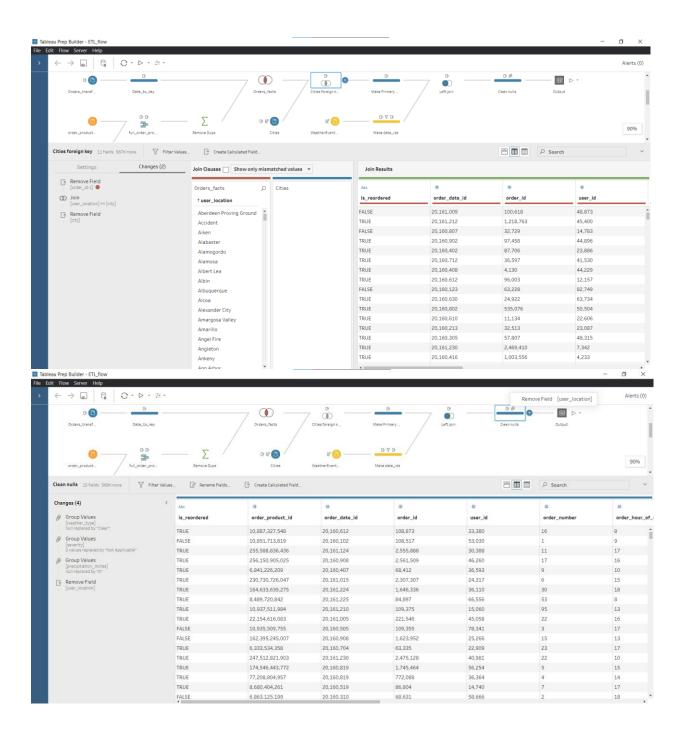
#### **ETL**

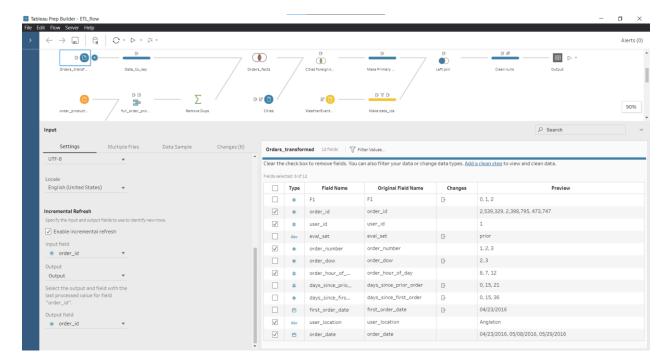
Poniżej widzimy proces etl w oprogramowaniu Tableau Prep, z zbliżeniami na niektóre z ciekawszych transformacji.











## **Hurtownia Danych**

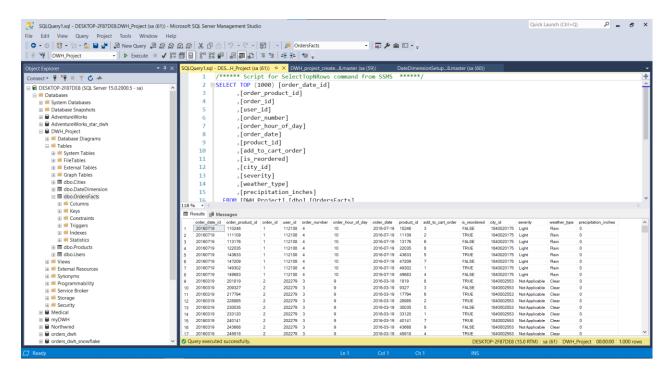
Poniżej widzimy sktypty w języku SQL wykorzystane do stworzenia hurtowni danych.

```
DateDimensionSetup.sql - DESKTOP-2F87DE8.master (sa (60)) - Microsoft SQL Server Management Studio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₽ - 8 ×
 Tille Edit View Project Tools Window Help
                                                                                                                                                                                                                                                                                                                                                                                                        · 🗑 🔑 🏛 🖂 - -
   Object Explorer
Connect ▼ ♥ ▼ ■ ▼ ♂ ❖
                                                                                                                                                                                                                   sionSetun 8 master (sa (60)) + X
      --https://www.ms
USE DWH_Project
                                                                                                                                                                                                                     DECLARE @StartDate DATE = '19000101', @NumberOfYears INT = 200;
                                                                                                                                                                                                                      =-- prevent set or regional settings from interfering with

-- interpretation of dates / literals
                                                                                                                                                                                                                           SET DATEFIRST 7:
                                                                                                                                                                                                                          SET DATEFORMAT mdy;
SET LANGUAGE US_ENGLISH;
                                                                                                                                                                                                                          DECLARE @CutoffDate DATE = DATEADD(YEAR, @NumberOfYears, @StartDate);
                                                                                                                                                                                                                               -- this is just a holding table for intermediate calculations:
                      is iff dbo.Users
is Views
is External Resources
is Synonyms
is Programmability
is Programmability
is Service Broker
is Storage
is Security
is Medical
is norders,dwh,snowflake
is VaccinesVH
is VaccinesVH
is Courting
                                                                                                                                                                                                                          CREATE TABLE #dim
                                                                                                                                                                                                          19
                                                                                                                                                                                                                                   [date]
                                                                                                                                                                                                                                                                            DATE PRIMARY KEY.
                                                                                                                                                                                                          20
21
22
23
24
25
26
27
28
29
30
                                                                                                                                                                                                                                   [date] DATE PRIMARY KEY,
[day] AS DATEPART(DAY, [date]),
[month] AS DATEPART(MONTH, [date]),
FirstOfMonth AS COMMERT(DATE, DATEADO(MONTH),
[week] AS DATEPART(MONTH, [date]),
[week] AS DATEPART(MONTH, [date]),
[ISOweek] AS DATEPART(MEEKA, [date]),
[DayofMeek] AS DATEPART(MEEKAY, [date]),
[quarter] AS DATEPART(WEEKAY, [date]),
[year] AS DATEPART(WEEKAY, [date]),
[year] AS DATEPART(WEEKAY, [date]),
[stristOfYear] AS COMMERT(DATE, DATEADO(YEAR, [date]),
[stristOfYear] AS DATEPART(DATE, DATEADO(YEAR, [date]),
[stristOfYear] AS DATEPART(DATE, DATEADO(YEAR, [date]),
[stristOfYear] AS DATEPART(WEEKAY, [date]),
[stris
                                                                                                                                                                                                                                                                                                                                                                                                                ,
H, DATEDIFF(MONTH, 0, [date]), 0)),
                                                                                                                                                                                                                                                                                                                                                                                ADD(MONTH, [date]),
                                                                                                                                                                                                                                    FirstOfYear AS CONVERT(DATE, DAT
Style112 AS CONVERT(CHAR(8),
                                                                                                                                                                                                                                                                                                                                                            DATE
                                                                                                                                                                                                                                                                                                                                                                                                                             DATEDIFF(YEAR, 0, [date]), 0)),
                                                                                                                                                                                                                                                                                                                                                                                [date], 112),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DESKTOP-2F87DE8 (15.0 RTM) | sa (60) | master | 00:00:
  · | 57 / = 12 · -
      master | master
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                                                                                                                                                                                                                            USE [DWH_Project]
                nect ▼ 🍟 🗏 🝸 🖒 👭
      © DESCROP-ZERIOES (SQL Server 1
□ Databases
□ System Databases
□ Database Snapshots
□ AdventureWorks
□ AdventureWorks
□ AdventureWorks
□ Database Diagrams
□ Tables
□ System Tables
□ Efferables
□ Graph Tables
□ Illego Cities
         /****** Object: Table [dbo].[Cities] Script Date: 12.06.2022 13:18:11 ******/
SET ANSI_NULLS ON
GO
                                                                                                                                                                                                                          SET QUOTED IDENTIFIER ON
                                                                                                                                                                                                                   CREATE TABLE [dbo].[Cities](
   [county_fips_codes] [int] NOT NULL,
   [density] [int] NULL,
   [city_name] [nvarchar](40) NOT NULL,
   [state_name] [nvarchar](40) NOT NULL,
   [latitude] [float] NOT NULL,
   [is_military_city] [nvarchar](40) NOT NULL,
   [longtitude] [float] NOT NULL,
   [county_name] [nvarchar](40) NOT N
                                                                                                                                                                                                          13
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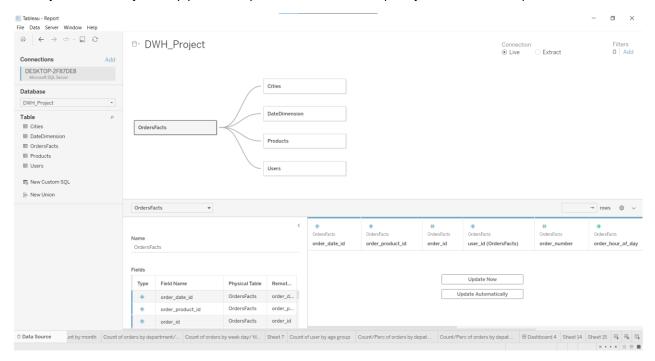
    Steward Resources
    Synonyms
    Programmability
    Service Broker
    Storage
    Security

                                                                                                                                                                                                          18
19
20
21
22
                                                                                                                                                                                                                        [city_id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OP
ON [PRIMARY]
                                                                                                                                                                                                          23
24
25
26
27
                    29
30 ECREATE TABLE [dbo].[OrdersFacts](
31 [order_date_id] [int] NOT NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DESKTOP-2F87DE8 (15.0 RTM) sa (59) master | 00:00:00 | 0 r
```



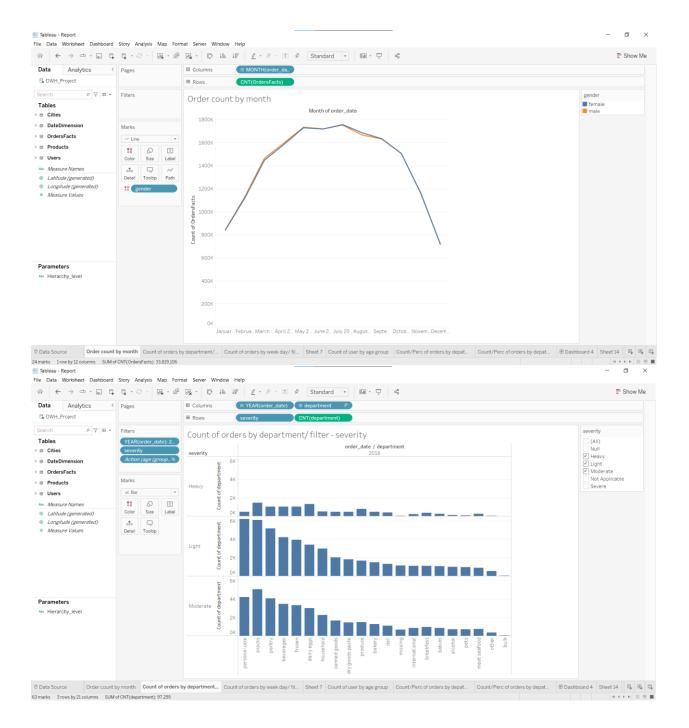
### Wczytanie Danych w systemie BI

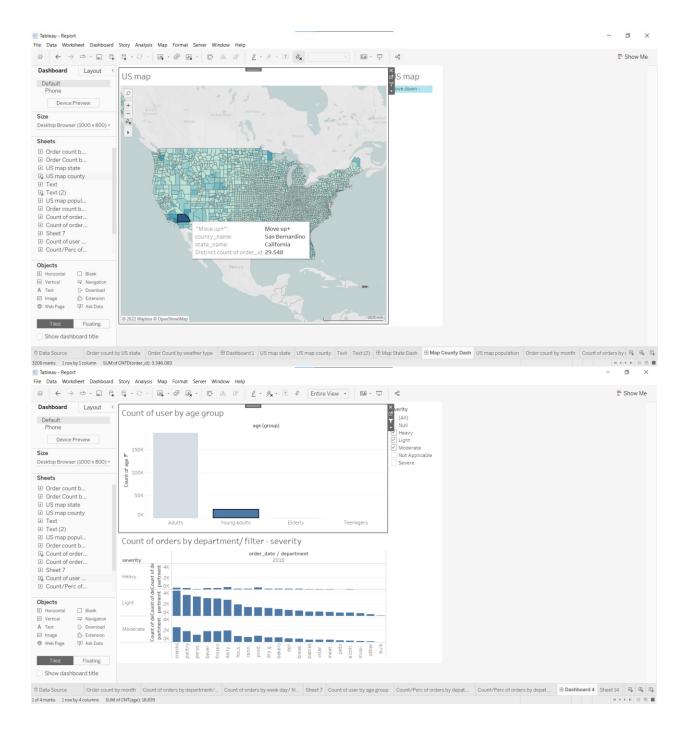
Poniżej zamieszczone jest wczytywanie danych z MS SQL Server do aplikacji BI Tableau Desktop.

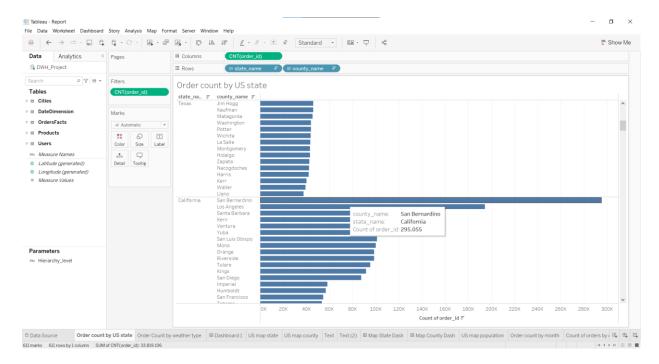


# Przykładowe wykresy i raporty

Poniżej pokazujemy część stworzonych przez nas wykresów/raportów.

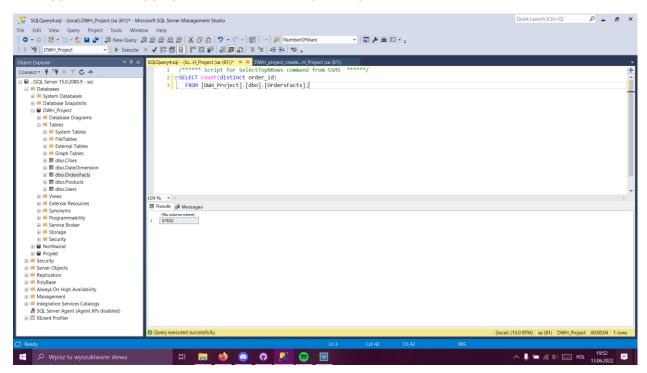


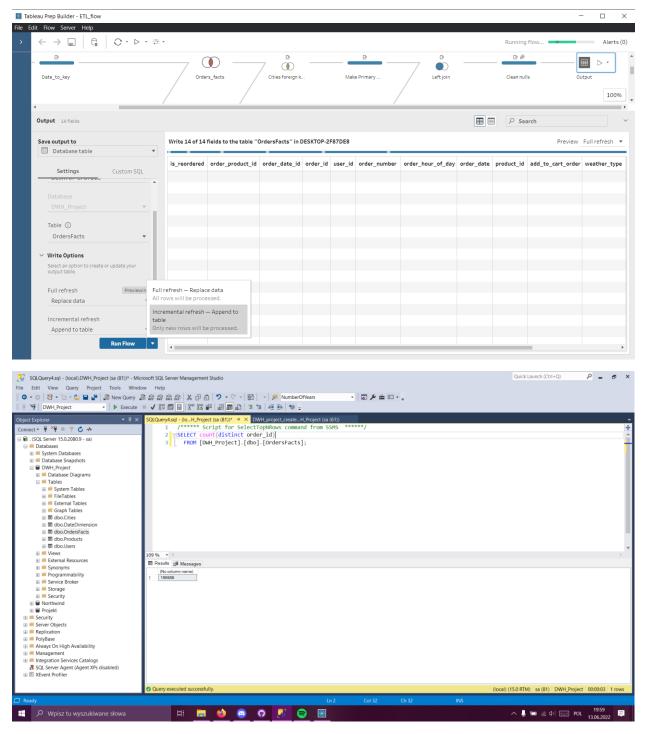




### Przykład inputacji danych:

Poniżej przedstawiamy przykład dostarczania nowych danych do hurtowni.





Tu po kolei mamy zdjęcie przed inputacją, krok inputacji i zdjęcie po inputacji danych. Widzimy że dane za pomocą incremental refresh zostały dodane do hurtowni.

### Udostępnienie raportów

Nasze raporty dostępne są dla odbiorcy systemu w formie aplikacji webowej, co istotnie ułatwia przeglądanie danych.

