HW 07 Staging

DWBI

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Data is first loaded into a staging table then using data conversion, transformation is done. Finally, that data is loaded in destination table.

Create Table Script

For Staging Table

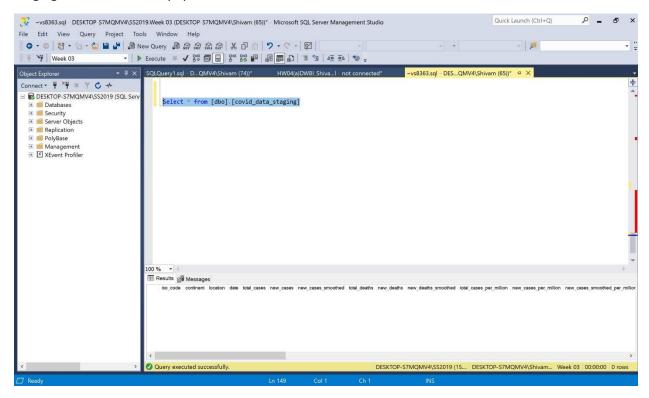
```
CREATE TABLE [dbo].[covid data staging](
[iso code] [varchar](255) NULL,
[continent] [varchar](255) NULL,
[location] [varchar](255) NULL,
[date] [varchar](255) NULL,
[total cases] [varchar](255) NULL,
[new_cases] [varchar](255) NULL,
[new_cases_smoothed] [varchar](255) NULL,
[total_deaths] [varchar](255) NULL,
[new deaths] [varchar](255) NULL,
[new deaths smoothed] [varchar](255) NULL,
[total_cases_per_million] [varchar](255) NULL,
[new cases per million] [varchar](255) NULL,
[new cases smoothed per million] [varchar](255) NULL,
[total_deaths_per_million] [varchar](255) NULL,
[new_deaths_per_million] [varchar](255) NULL,
[new_deaths_smoothed_per_million] [varchar](255) NULL,
[total_tests] [varchar](255) NULL,
[new tests] [varchar](255) NULL,
[new tests smoothed] [varchar](255) NULL,
[total_tests_per_thousand] [varchar](255) NULL,
[new_tests_per_thousand] [varchar](255) NULL,
[new_tests_smoothed_per_thousand] [varchar](255) NULL,
[tests_per_case] [varchar](255) NULL,
[positive_rate] [varchar](255) NULL,
[tests_units] [varchar](255) NULL,
[stringency_index] [varchar](255) NULL,
[population] [varchar](255) NULL,
[population density] [varchar](255) NULL,
[median age] [varchar](255) NULL,
[aged_65_older] [varchar](255) NULL,
[aged_70_older] [varchar](255) NULL,
[gdp_per_capita] [varchar](255) NULL,
[extreme_poverty] [varchar](255) NULL,
[cardiovasc_death_rate] [varchar](255) NULL,
[diabetes prevalence] [varchar](255) NULL,
[female smokers] [varchar](255) NULL,
[male smokers] [varchar](255) NULL,
[handwashing facilities] [varchar](255) NULL,
[hospital_beds_per_thousand] [varchar](255) NULL,
```

```
[life_expectancy] [varchar](255) NULL,
[human_development_index] [varchar](255) NULL
) ON [PRIMARY]
GO
```

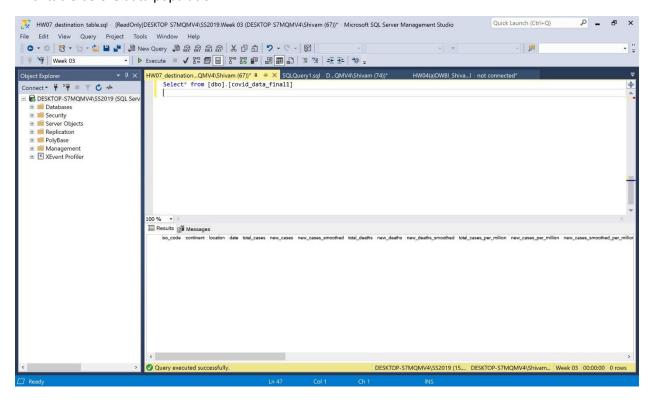
For Destination Table

```
CREATE TABLE [dbo].[covid data final](
[iso_code] [varchar](255) NULL,
[continent] [varchar](255) NULL,
[location] [varchar](255) NULL,
[date] [date] NULL,
[total_cases] [int] NULL,
[new_cases] [int] NULL,
[new_cases_smoothed] [float] NULL,
[total deaths] [int] NULL,
[new_deaths] [int] NULL,
[new_deaths_smoothed] [float] NULL,
[total_cases_per_million] [float] NULL,
[new_cases_per_million] [float] NULL,
[new cases smoothed per million] [float] NULL,
[total deaths per million] [float] NULL,
[new deaths per million] [float] NULL,
[new_deaths_smoothed_per_million] [float] NULL,
[total_tests] [float] NULL,
[new_tests] [int] NULL,
[new_tests_smoothed] [float] NULL,
[total_tests_per_thousand] [float] NULL,
[new_tests_per_thousand] [float] NULL,
[new_tests_smoothed_per_thousand] [float] NULL,
[tests_per_case] [float] NULL,
[positive_rate] [float] NULL,
[tests_units] [varchar](255) NULL,
[stringency_index] [float] NULL,
[population] [bigint] NULL,
[population_density] [float] NULL,
[median_age] [float] NULL,
[aged_65_older] [float] NULL,
[aged 70 older] [float] NULL,
[gdp per capita] [float] NULL,
[extreme_poverty] [float] NULL,
[cardiovasc_death_rate] [float] NULL,
[diabetes prevalence] [float] NULL,
[female smokers] [float] NULL,
[male_smokers] [float] NULL,
[handwashing facilities] [float] NULL,
[hospital_beds_per_thousand] [float] NULL,
[life_expectancy] [float] NULL,
[human development index] [float] NULL
) ON [PRIMARY]
GO.
```

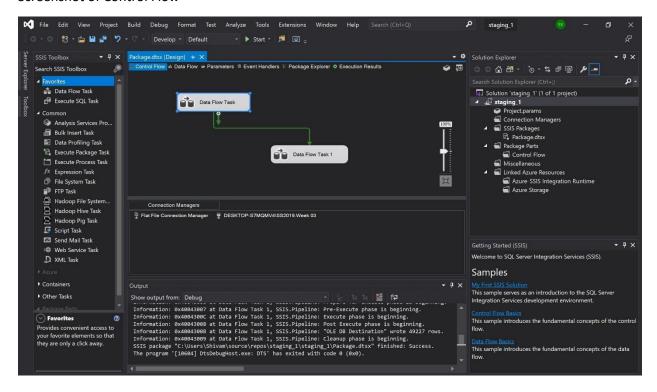
Staging table before data population



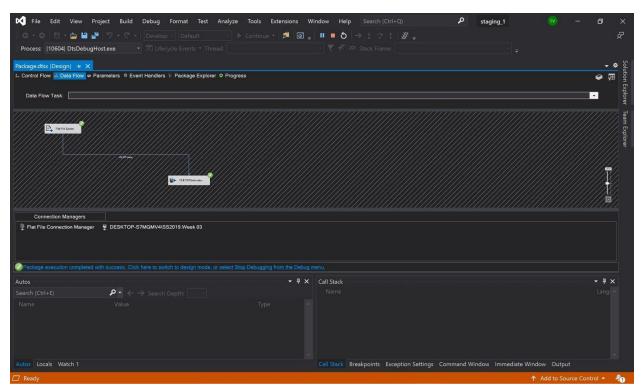
Final table before data population



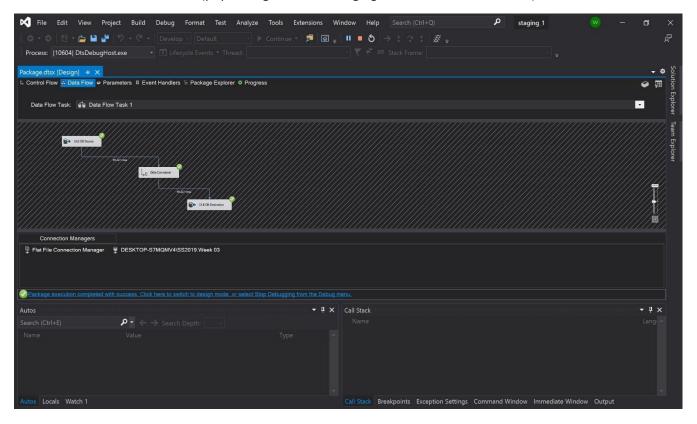
Screenshot of Control Flow



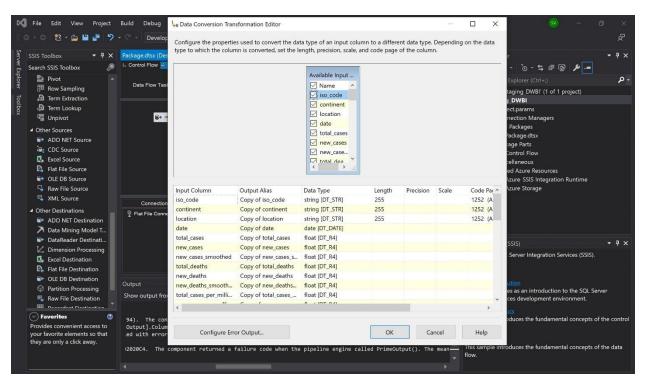
Screenshot of Data flow Task 1 (populating data from flat file to staging table)



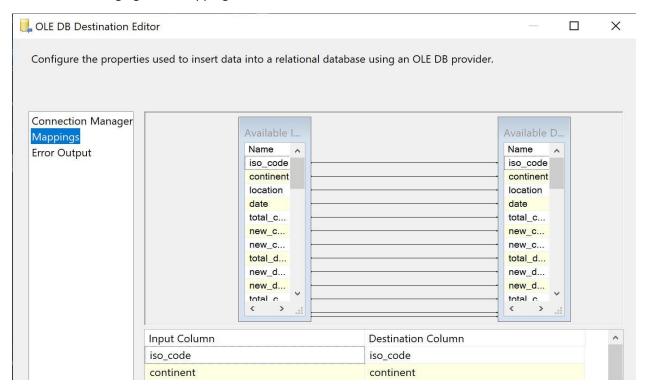
Screenshot of Data flow Task 2 (populating data from staging table to destination table)



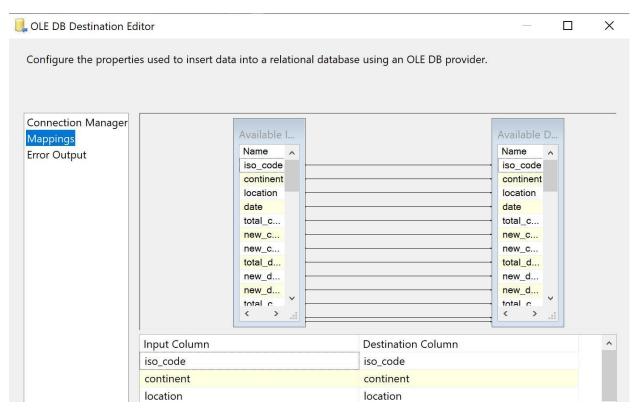
Screenshot of Data Conversion Task



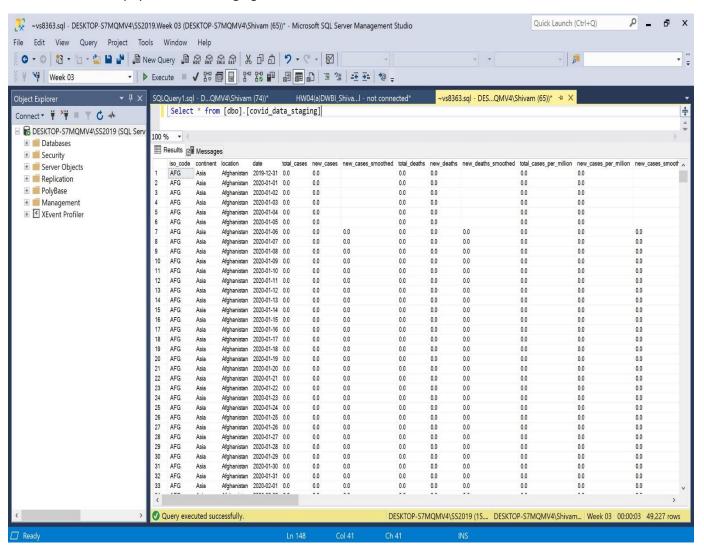
Screenshot of staging table mappings



Screenshot of Destination table mappings



Screenshot of data populated into staging table



Screenshot of data populated into destination table

