Sri Lanka Institute of Information Technology

Data Warehousing and Business Intelligence

Assignment – 02

2022

IT20203412

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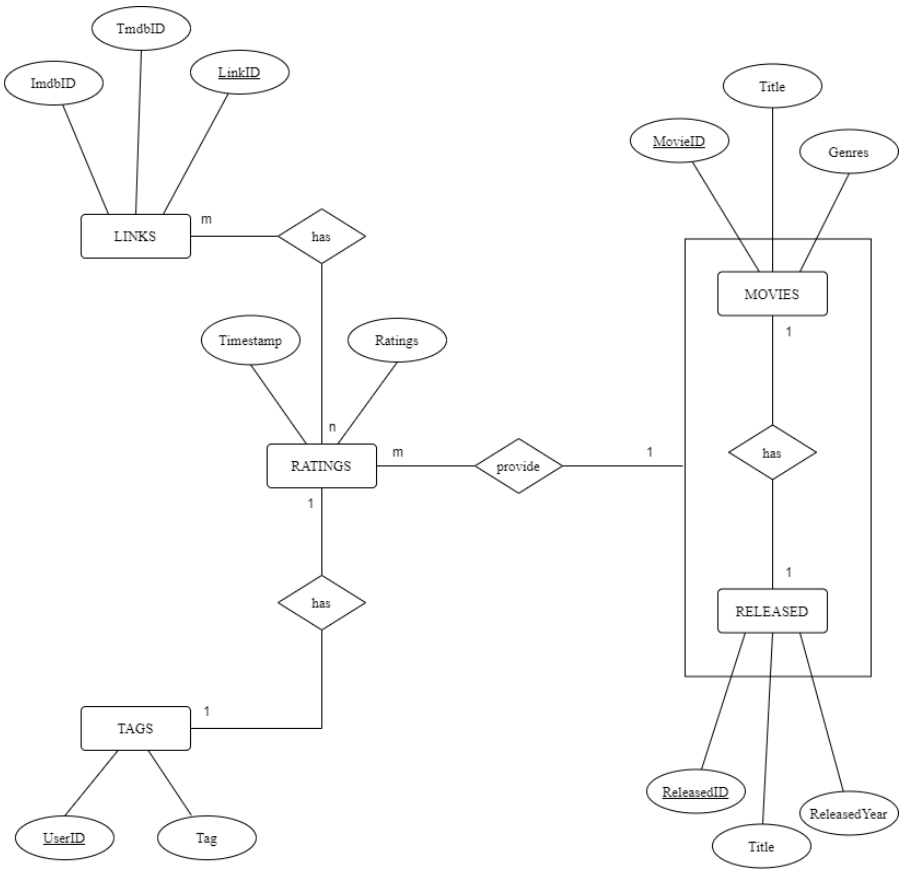
DATA SOURCE

Assignment 01 was completed using the Data Warehouse that was established in the previous assignment. The selected data collection was transactional data, as detailed in Assignment 01.

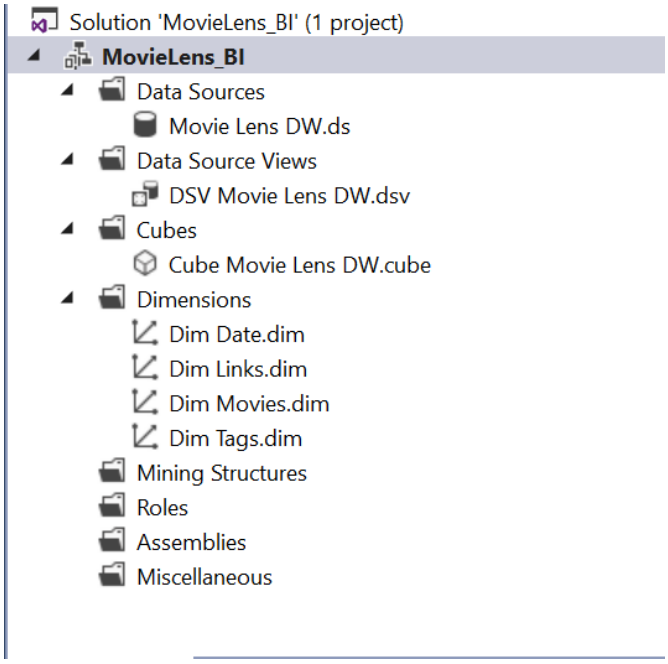
ER DIAGRAM

The below ER- diagram shows the connection between the entities in the data set and the attributes.

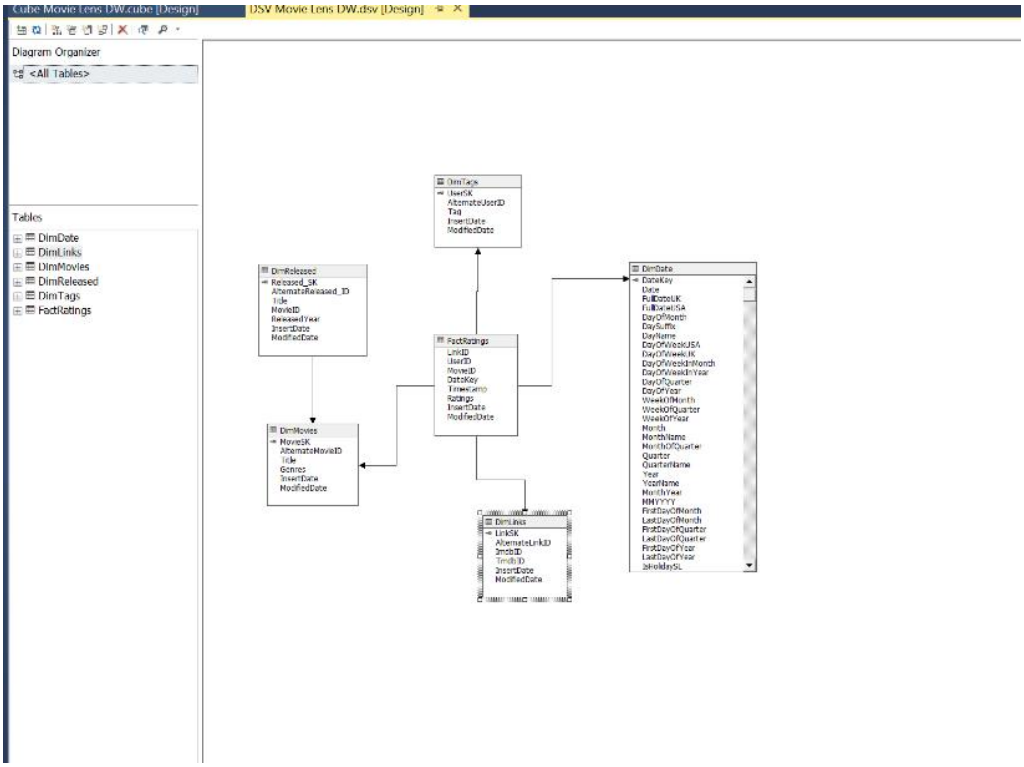


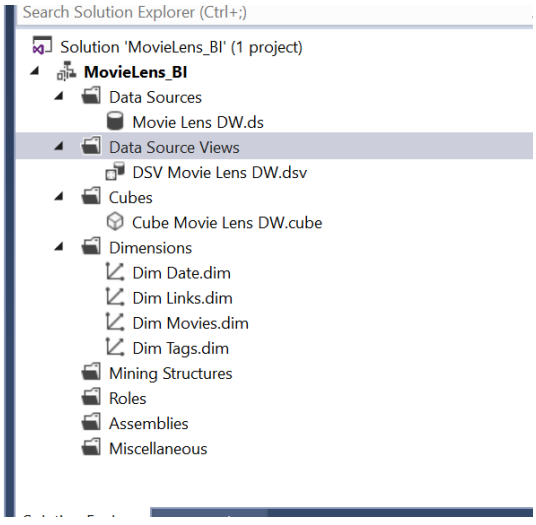
SSAS CUBE IMPLEMENTATION

To begin the SSAS cube implementation, a new SSAS project named 'MovieLens SSAS' was established. The newly formed Data warehouse was first added as a new Data source and set up.

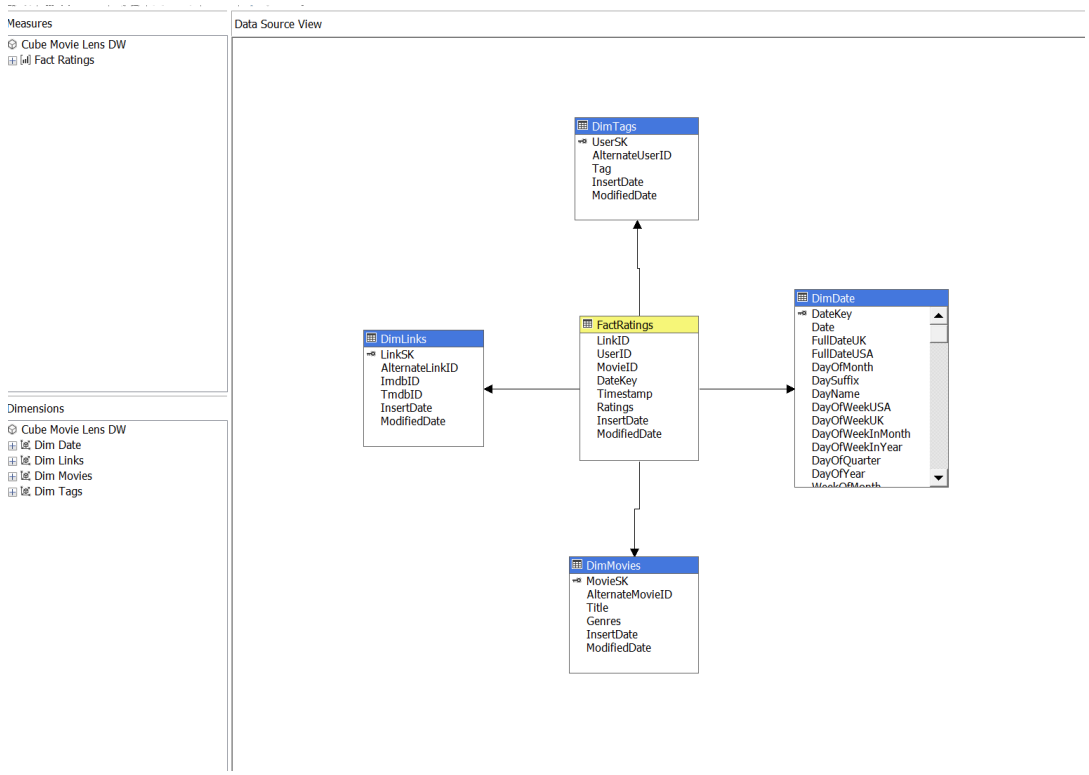


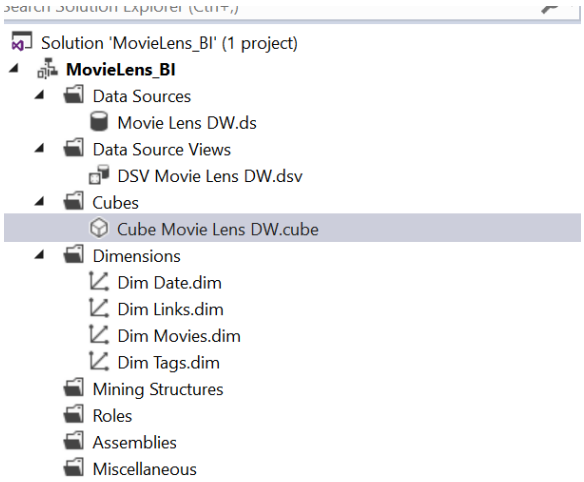
After adding the same warehouse, a new Data Source view was created. When creating the Data Source View, first choose the Fact table, then click Add Related Tables to add the relevant tables that are associated to the Fact table. The data source view that was generated is attached below.





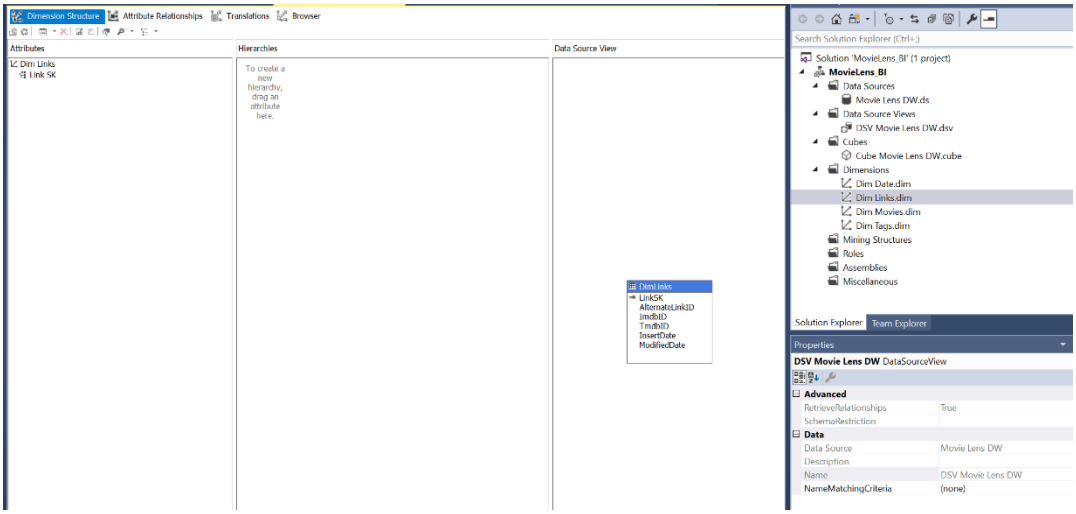
Next a cube was created by adding a new cube and selecting the fact table, measures, dimensions appropriately. The created cube is demonstrated below:



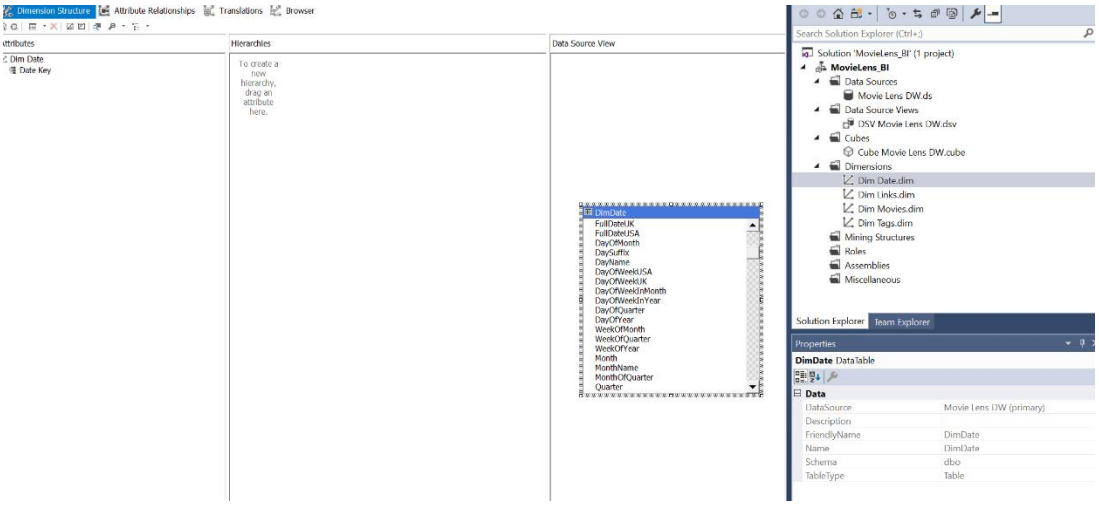


Next attributes were added to the relevant dimensions.

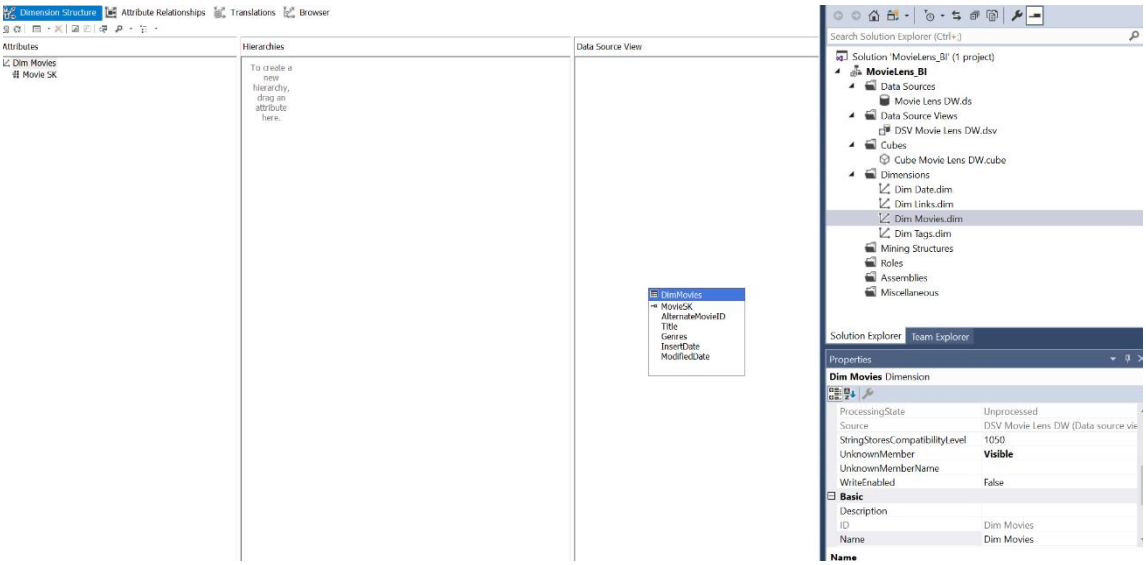
Link Dimension



Date Dimension – Date dimension includes hierarchy with year, month and date attributes.



Movie Dimension



Tag Dimension