

IT16032316

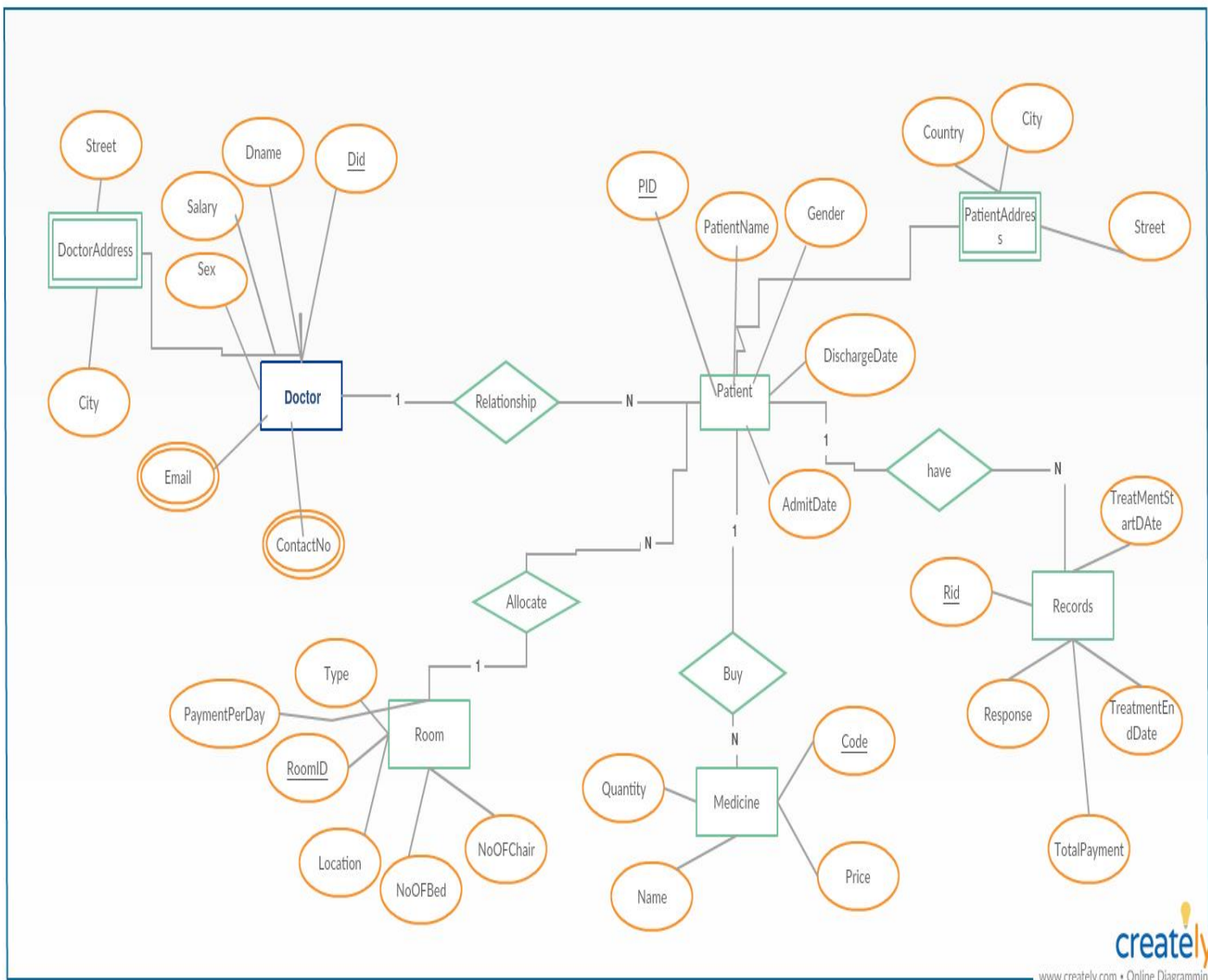
DWBI ASSIGNMENT-1

2018.05.04

The Dataset is about Hospital Management System Mostly Focused on Patient Management. So The Main Tables Took for this process are

- Patients Records Table
- Patients Details Table
- Doctor Details Table
- Medicine Details Table
- Rooms Table
- Doctors Address Table
- Patient Address Table
- Records Table

These Tables are mapped according to this scenario. This scenario is in the form of ER DIAGRAM Below



These Files are in xls and txt Format as Given Below:

Patients =>Patients.xls

Patients Address=>PatientsAddress.xls

Doctors=>Doctor.xls

Medicine =>Medicine.xls

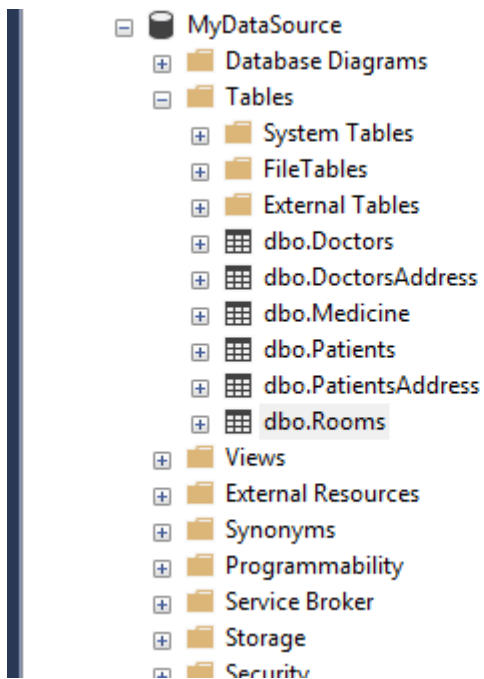
Rooms=>Rooms.xls

Doctors Address =>DoctorsAddress.xls

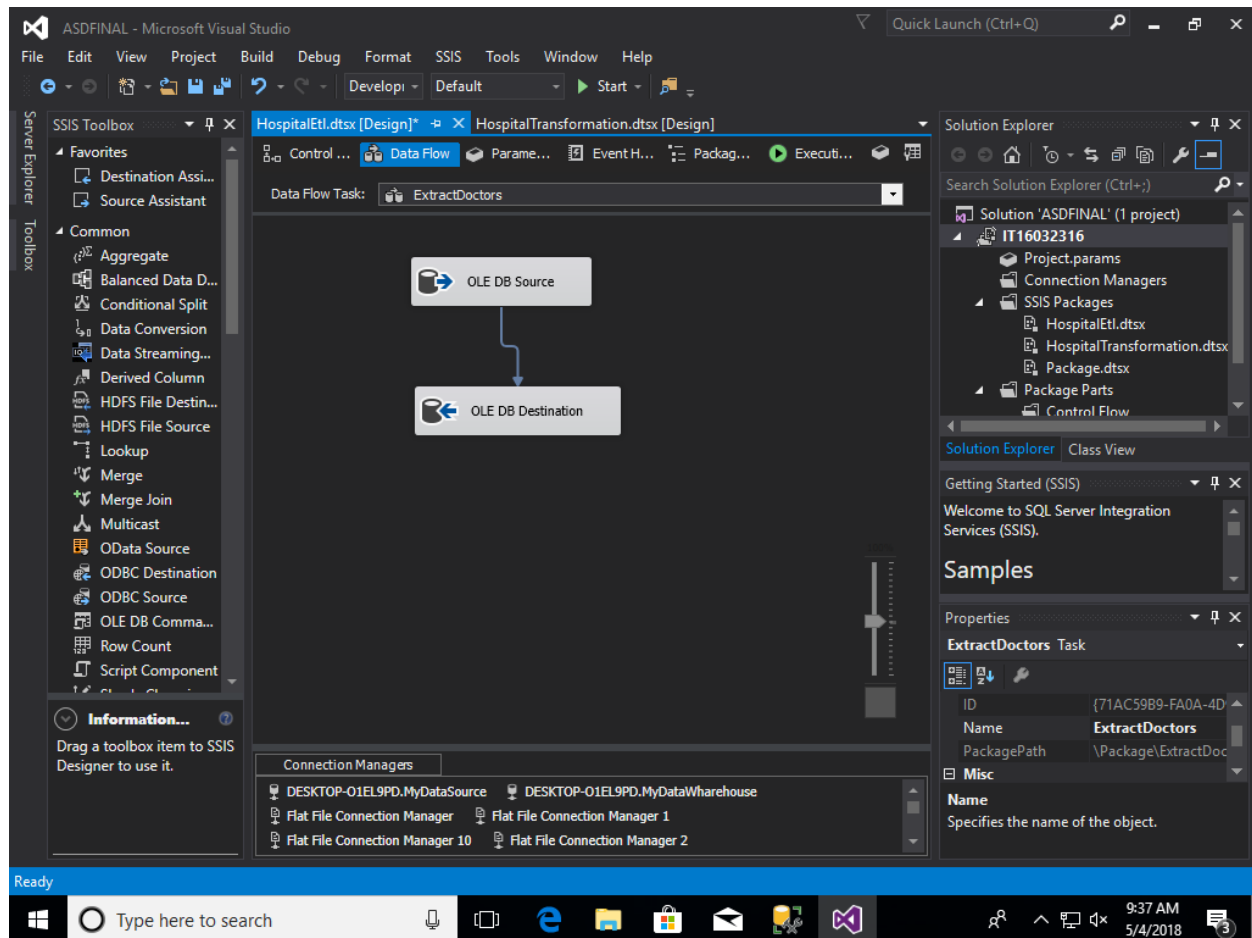
Patient Address =>PatientsAddress.xls

Records =>Records.txt

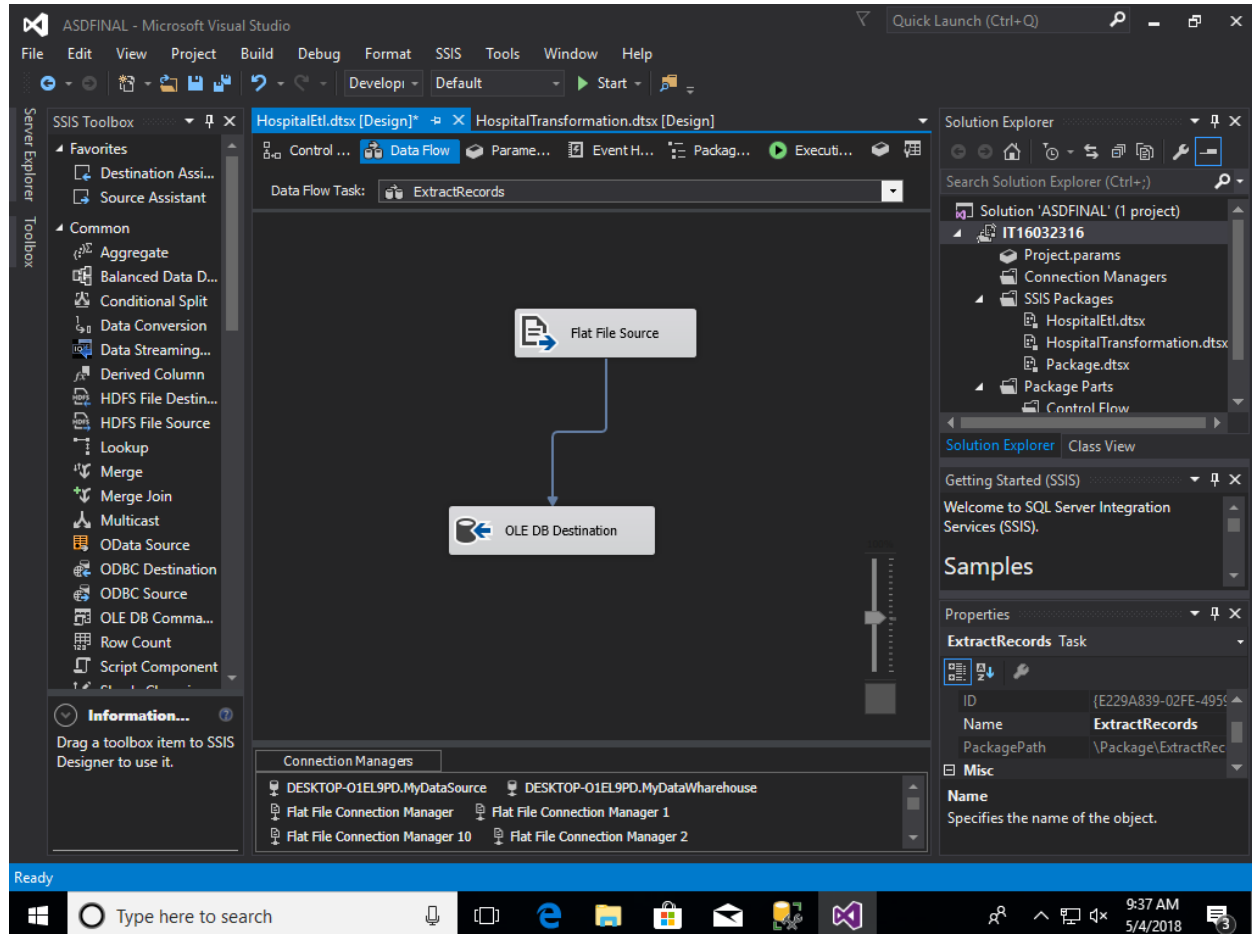
After this the xls Data was Loaded to the sql server by creating a database called DataSource.



Then by using the visual studio (ssis) All the data Loaded to the sql was took by Oldb Source and Put into Staging Area



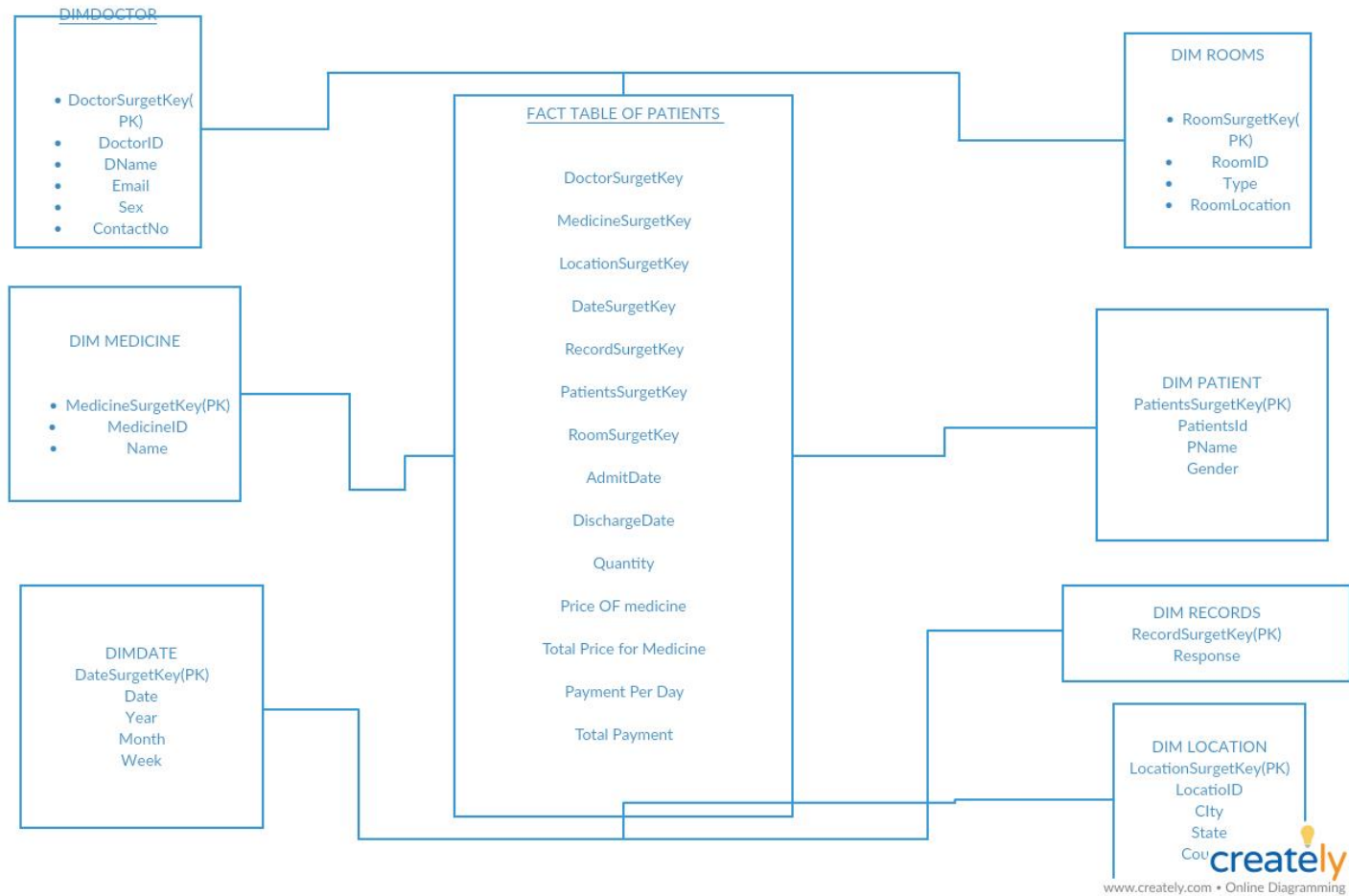
Then The Flat File Data was took directly from the records.txt file and get loaded to the Records Staging Area



After this All the Data from DataSource are went to the Staging are of “Datawarehouse” Database.

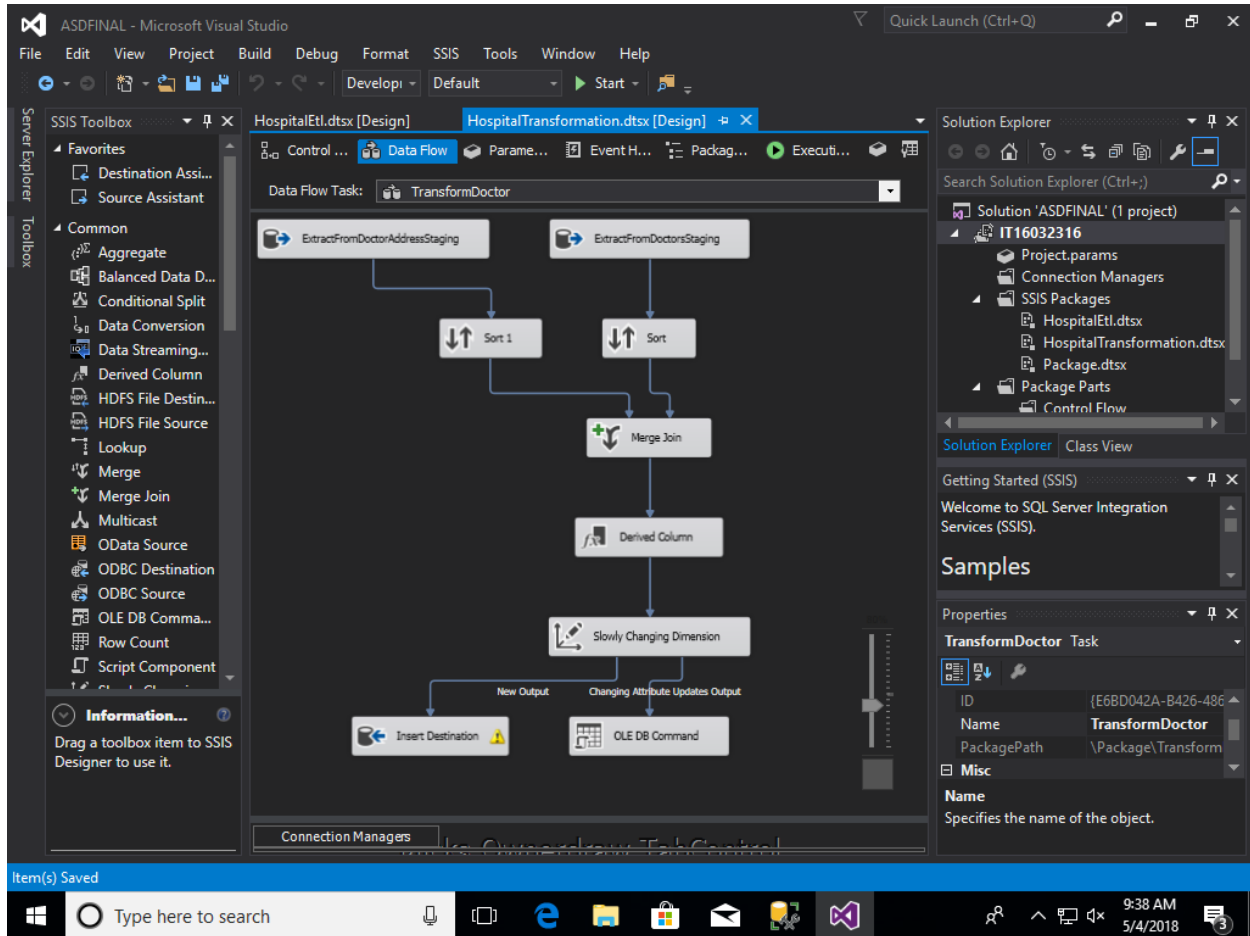
Then the next step was to Load the Data to dimension Table.

Given Below is the schema I used to map fact table and the dimension Table



So From The Staging Area the data was moved to the dimension table using slowly changing dimension task in the dataflow.

Given Below is an example the data took from DoctorsStagingArea and DoctorAddressStaging Area joined and loaded into DimDoctor. All the following procedure of Transforming data was done by the way which I have indicated now..



ASDFINAL - Microsoft Visual Studio

File Edit View Project Build Debug Format SSIS Tools Window Help

Quick Launch (Ctrl+Q)

SSIS Toolbox

- Favorites
 - Data Flow Task
 - Execute SQL Task
- Common
 - Analysis Services...
 - Bulk Insert Task
 - Data Profiling Ta...
 - Execute Package...
 - Execute Process...
 - Expression Task
 - File System Task
 - FTP Task
 - Hadoop File Sys...
 - Hadoop Hive Task
 - Hadoop Pig Task
 - Script Task
 - Send Mail Task
 - Web Service Task
 - XML Task
- Azure
- Containers
 - For Loop Contai...
- Information...
 - Drag a toolbox item to SSIS Designer to use it.

HospitalEtl.dtsx [Design] HospitalTransformation.dtsx [Design]*

Control ... Data Flow Param... Event H... Packag... Executi...

TransformDoctor TransformPatients TransformMedicine TransformRecords TransformRooms Transform Patient Location Load Patients Fact

Connection Managers

DESKTOP-01EL9PD.MyDataWharehouse	DESKTOP-01EL9PD.MyDataWharehouse 1
DESKTOP-01EL9PD.MyDataWharehouse 2	DESKTOP-01EL9PD.MyDataWharehouse 3

Solution Explorer

Search Solution Explorer (Ctrl+)

Solution 'ASDFINAL' (1 project)

- IT16032316
 - Project.params
 - Connection Managers
 - SSIS Packages
 - HospitalEtl.dtsx
 - HospitalTransformation.dtsx
 - Package.dtsx
 - Package Parts
 - Control Flow

Solution Explorer Class View

Getting Started (SSIS)

Welcome to SQL Server Integration Services (SSIS).

Samples

Properties

HospitalTransformation Package

ID	{D88CB587-9004-4
Name	HospitalTransformat
PackageType	DTSDesigner100

Misc

Name

Specifies the name of the object.

Item(s) Saved

Type here to search

9:39 AM 5/4/2018

After Loading All the dimension by this way finally Fact table was Created.

Given Below are the screenshots of creating the fact table

