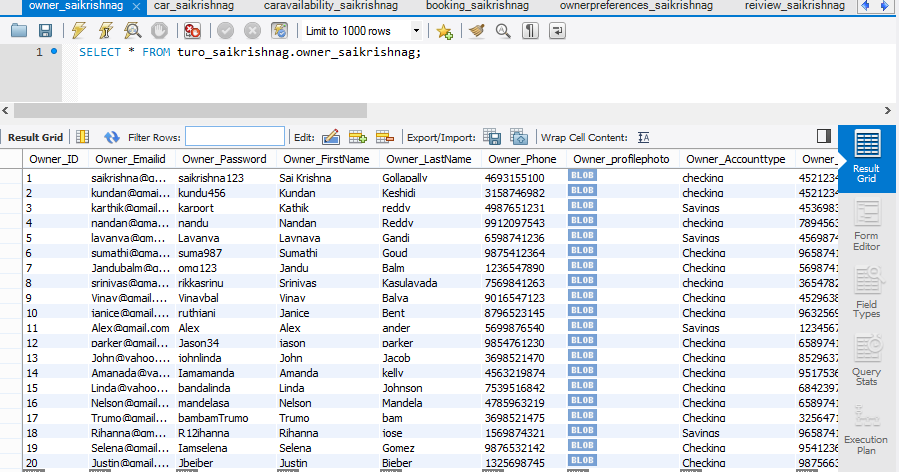
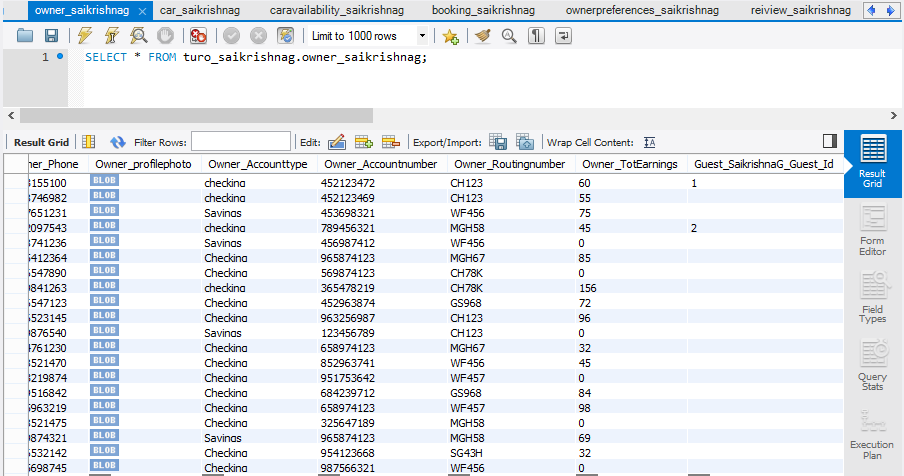
**Creating a Relational data base**

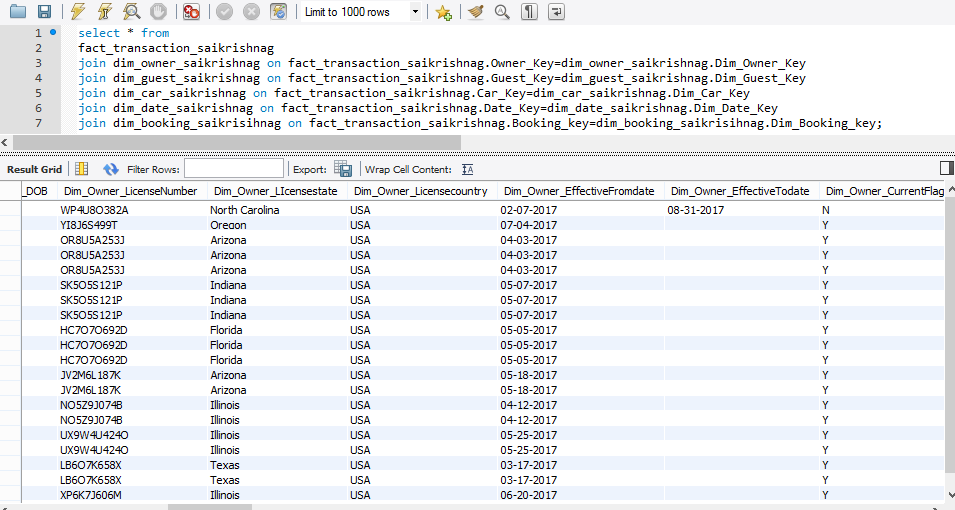
Schema of the Relational database in the file “Relational database schema”

Creating Tables and Populating with Data

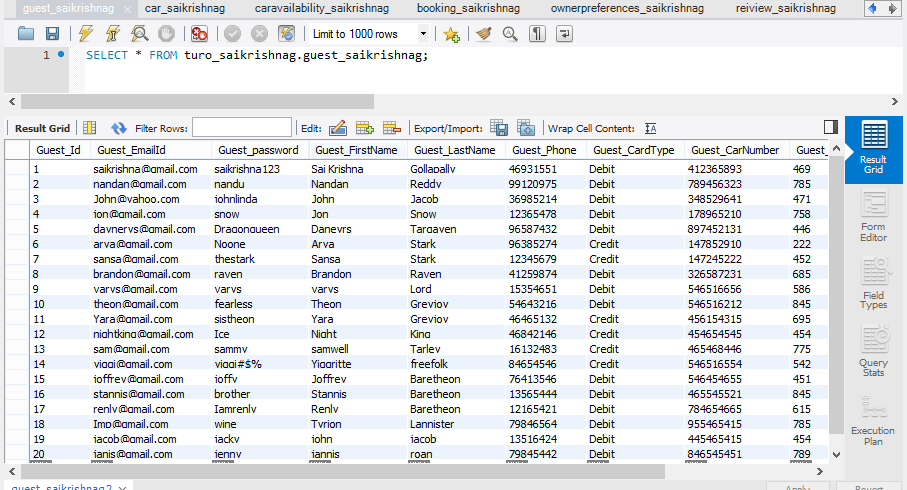
1.Table- Owner\_SaikrishnaG

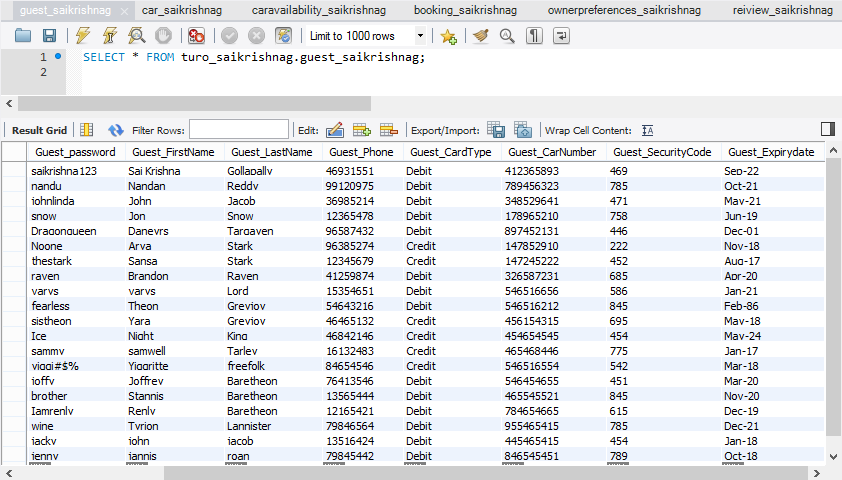




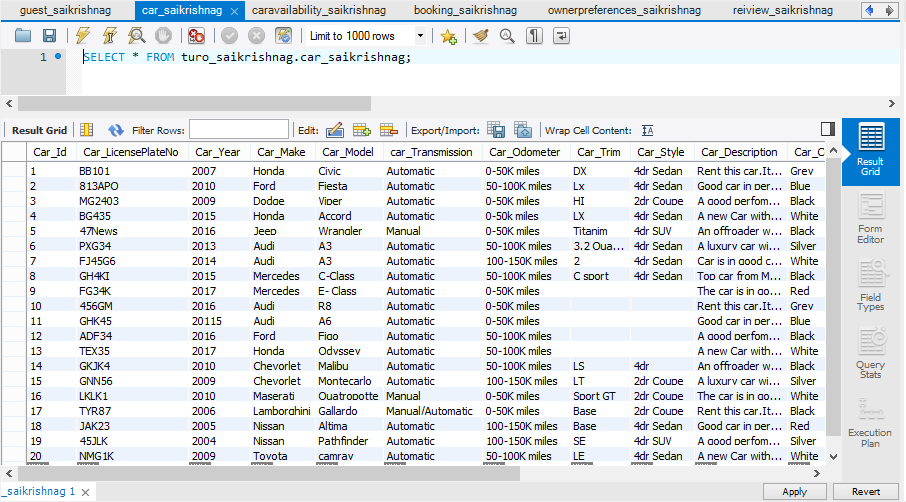


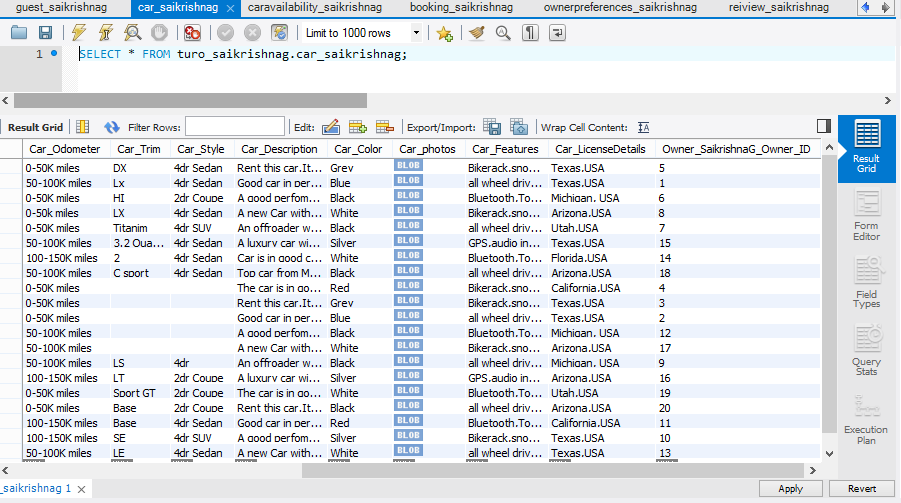
2.Table – Guest\_SaikrishnaG



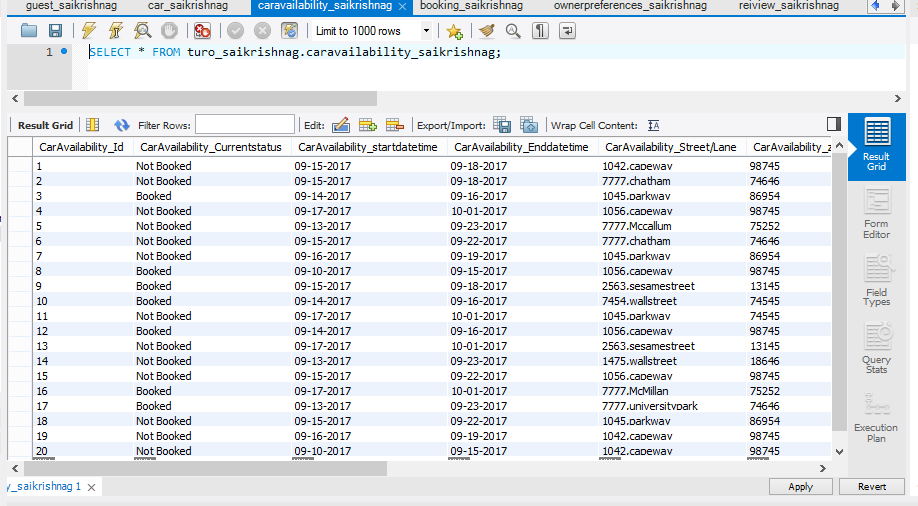


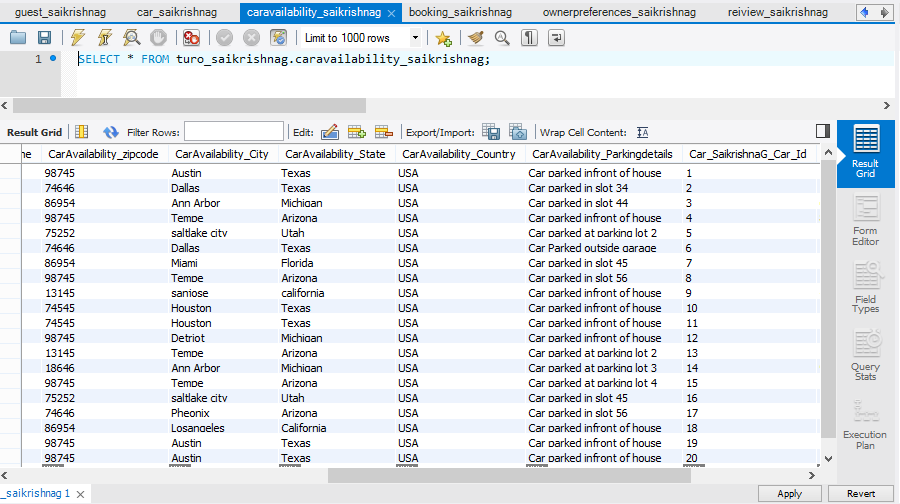
3.Table- Car\_SaikrishnaG



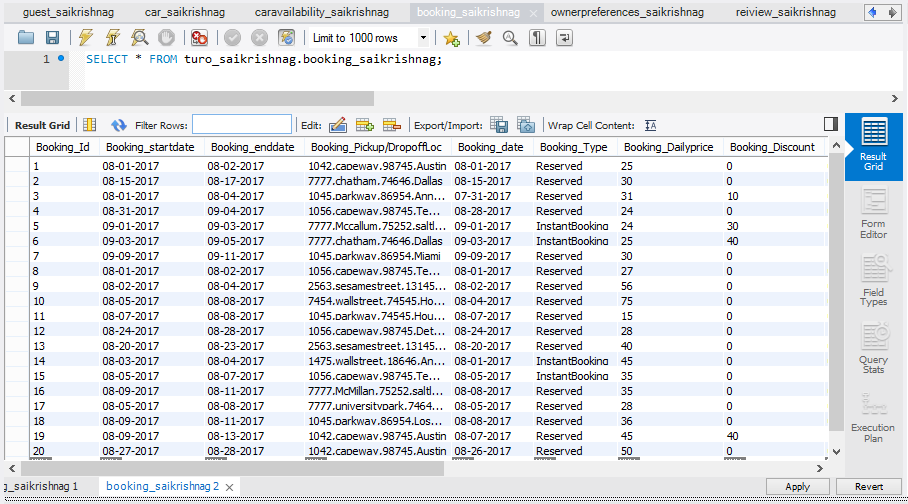


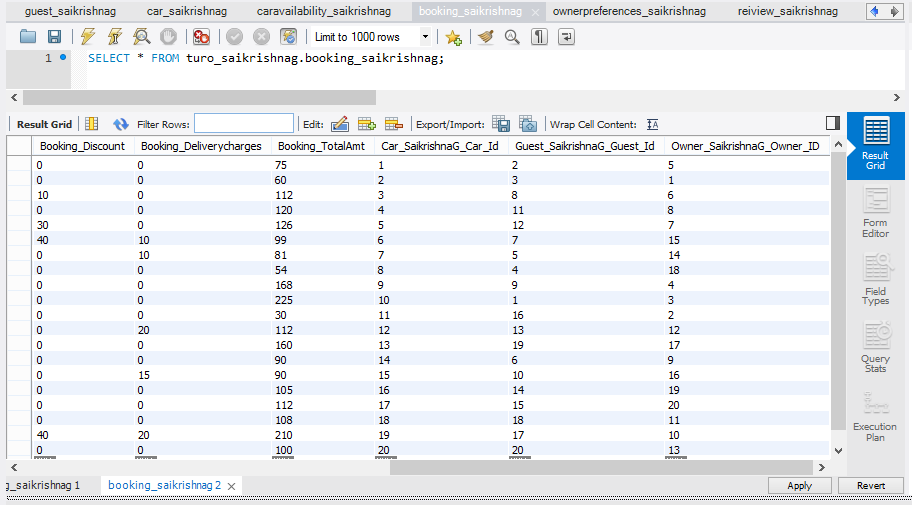
4.Table-CarAvailability\_SaikrishnaG



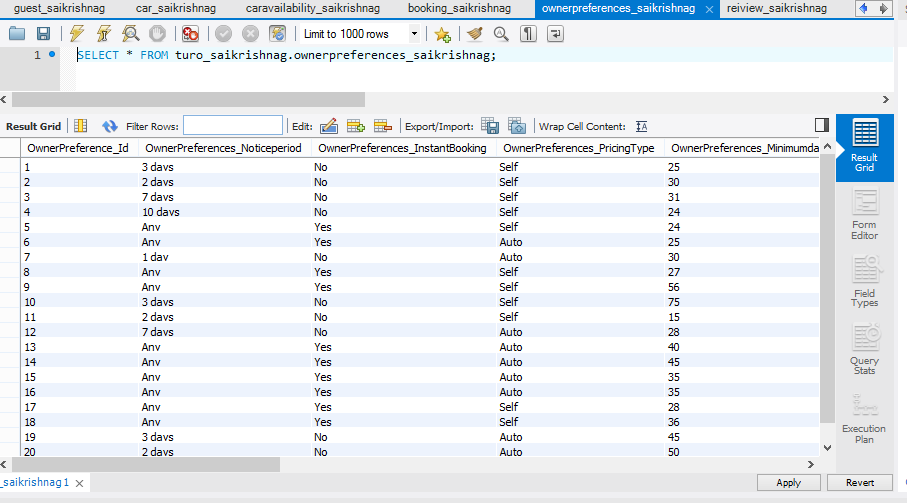


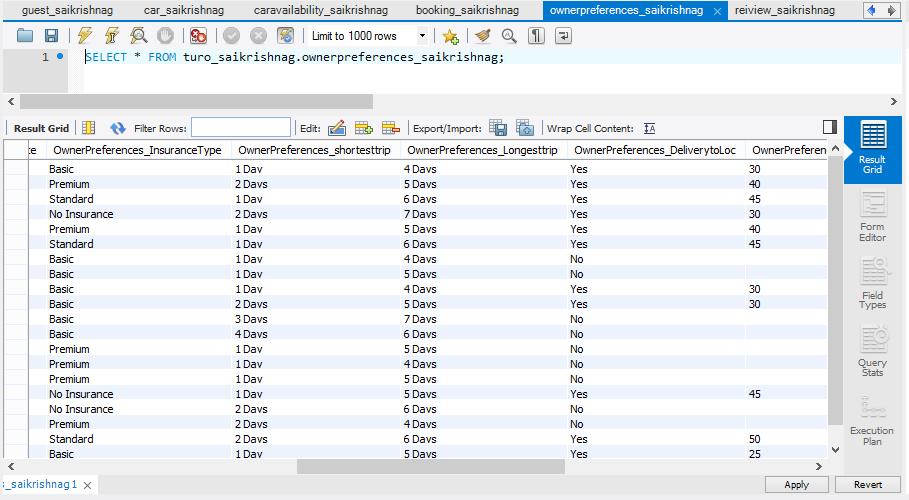
5.Table-Booking\_SaikrishnaG

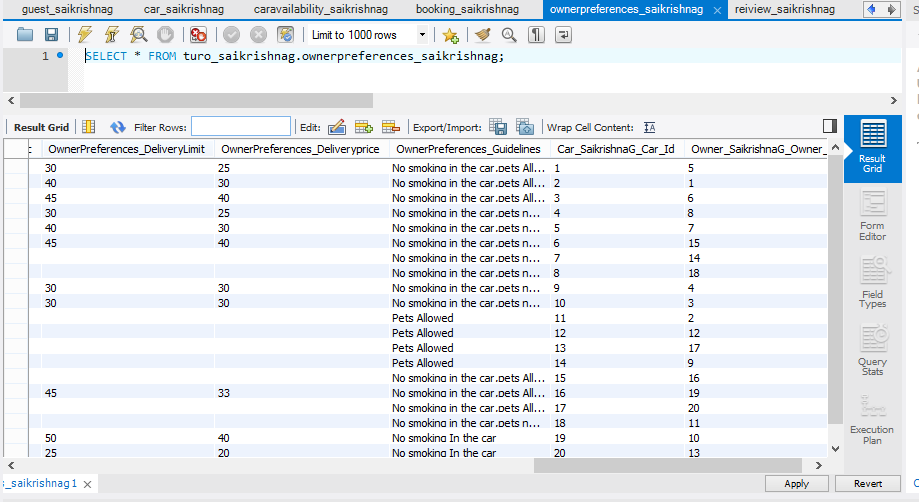




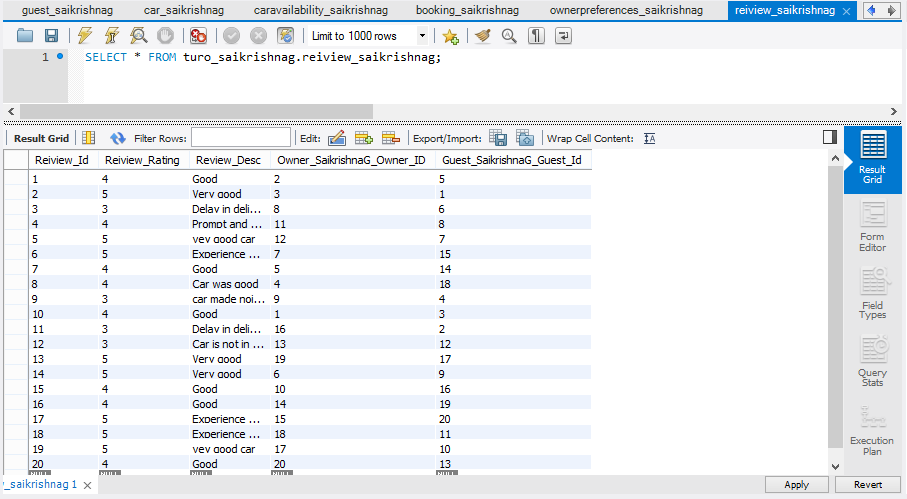
6.Table-Ownerpreferences\_SaikrishnaG







7.Table-Review\_SaikrishnaG



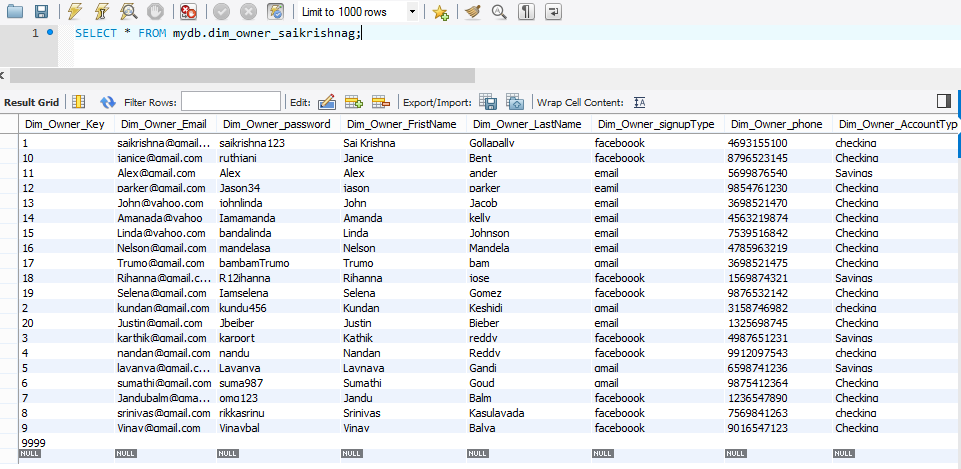
**CREATION OF DATAWAREHOUSE IN MYSQL**

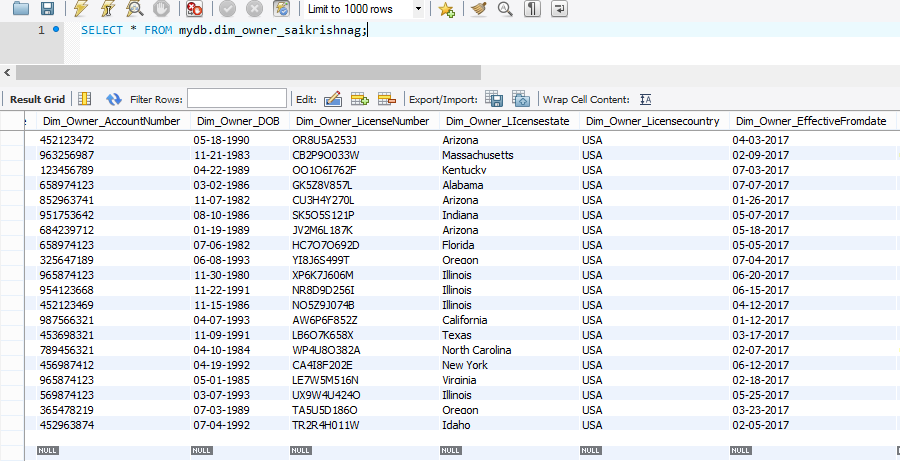
The schema of data warehouse in file “Datawarehouse.mwb” file

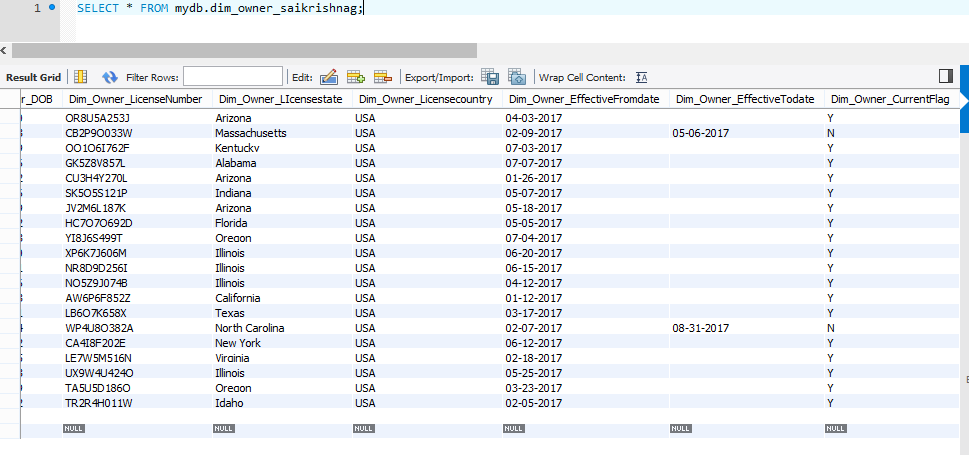
1)Dim\_Owner\_SaiKrishnaG

Owner Dimension modeled as Type 2 SCD with Effective from date and Effective to date attributes which inform the details of owner are as per the record in those dates and CurrentFlag indicates the Current details of the owner.

Record with Key #9999 is a dummy record to handle the null values arise in the fact table .



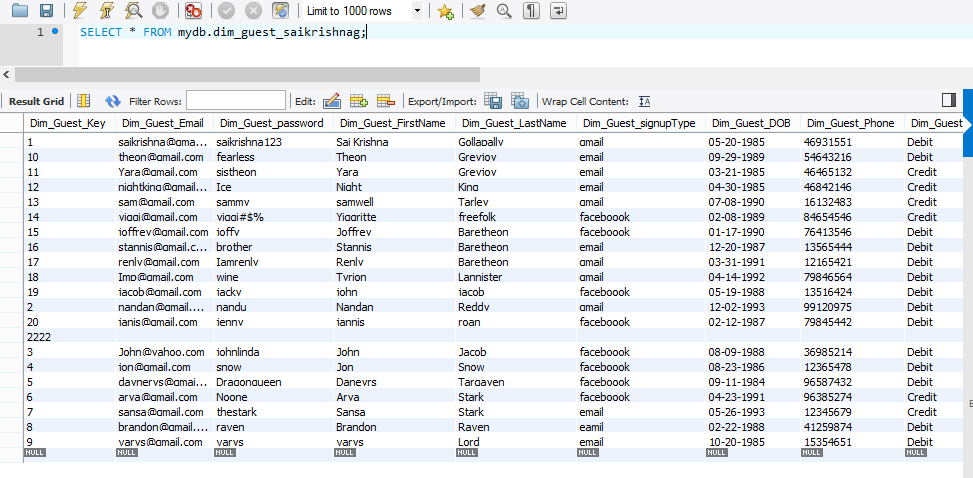


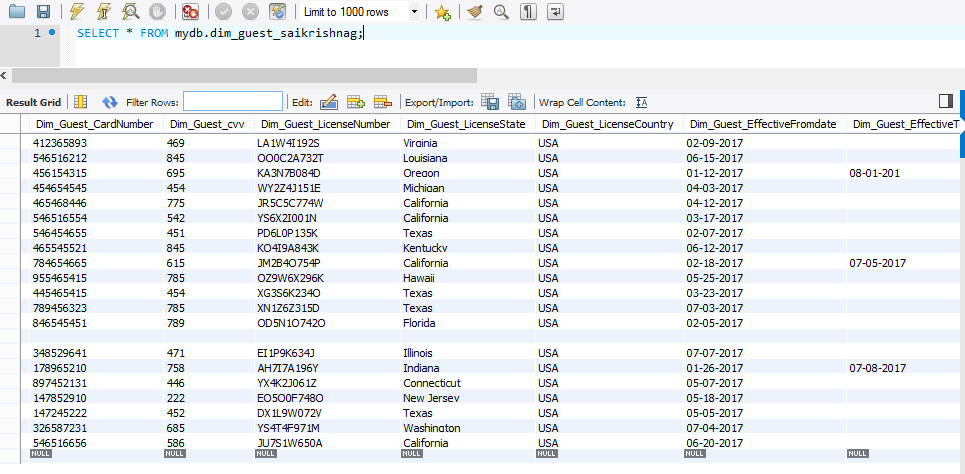


2)Dim\_Guest\_SaikrishnaG

Guest Dimension ,It is also modeled as Type 2 SCD to incorporate the changes in the details of the Guest over time.

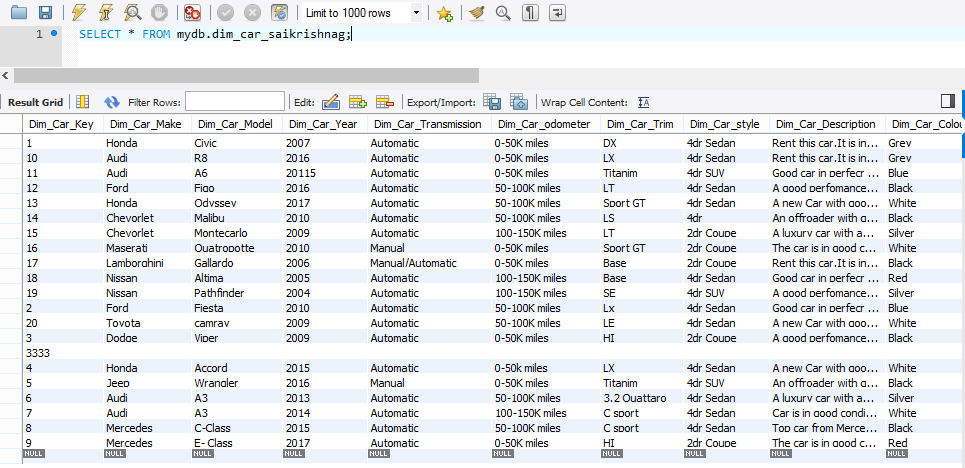
Record with Key #2222 is a dummy record to handle the null values arise in the fact table .

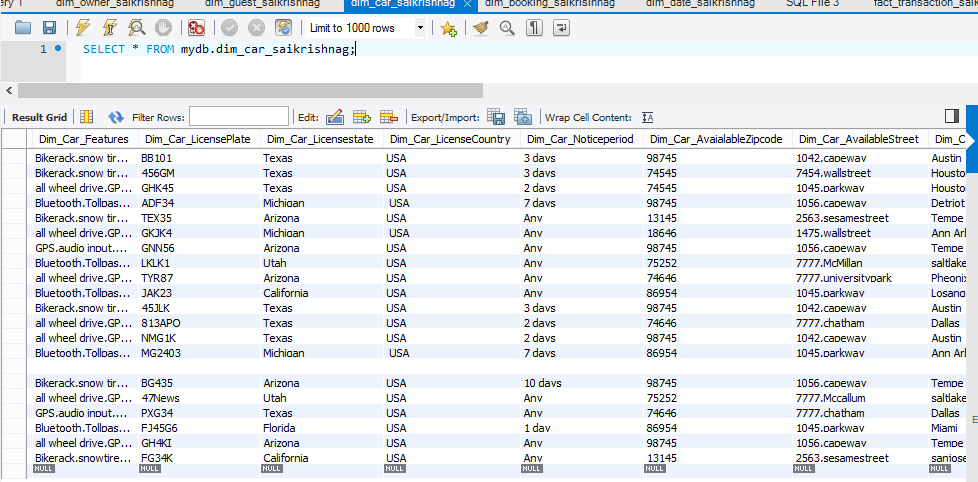


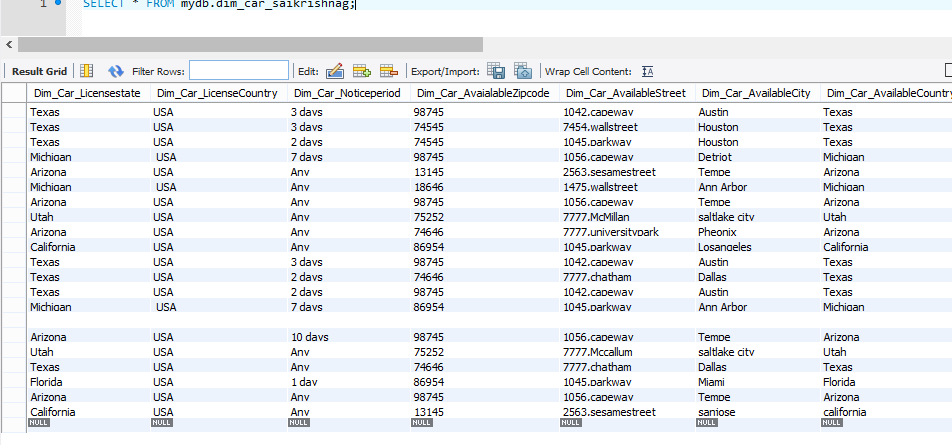


3)Dim\_Car\_SaikrishnaG

Car Dimension

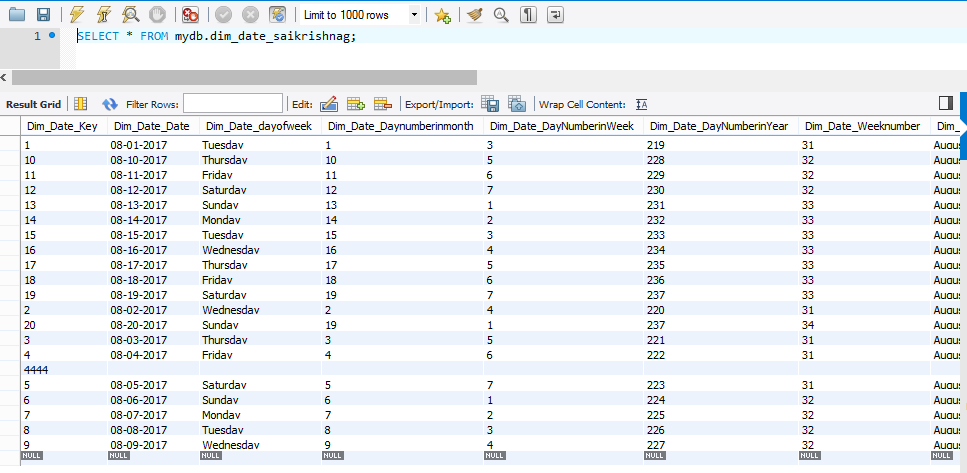


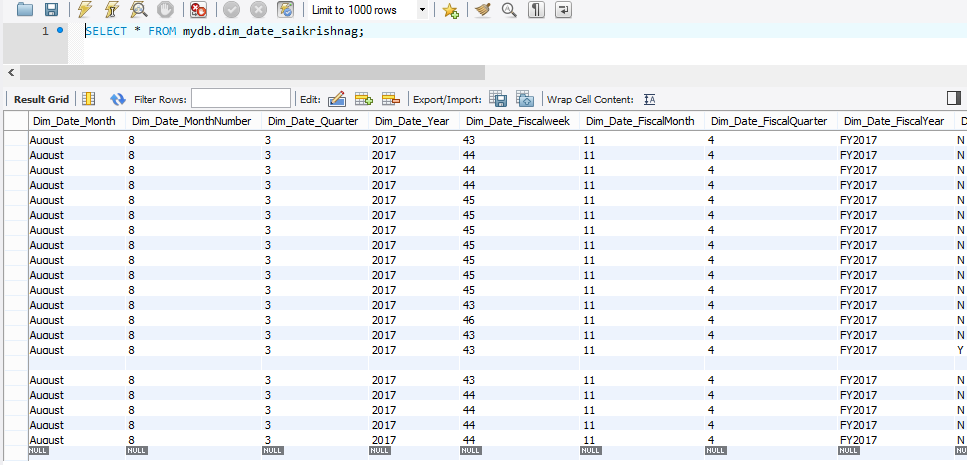




4)Dim\_Date\_SaikrishnaG

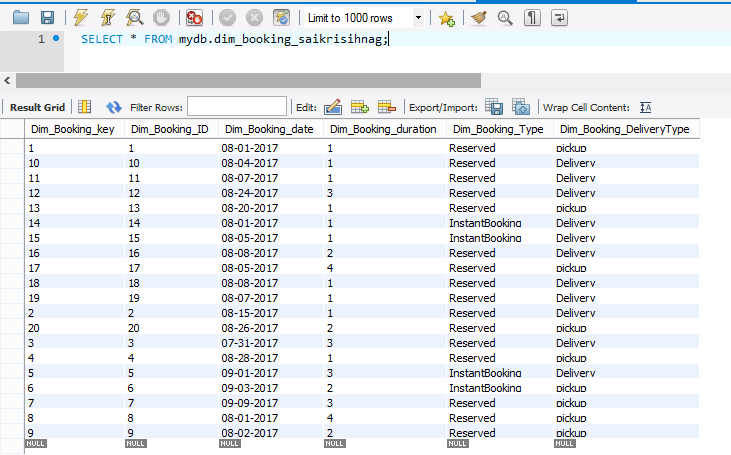
Time Dimension





5)Dim\_Booking\_SaikrishnaG

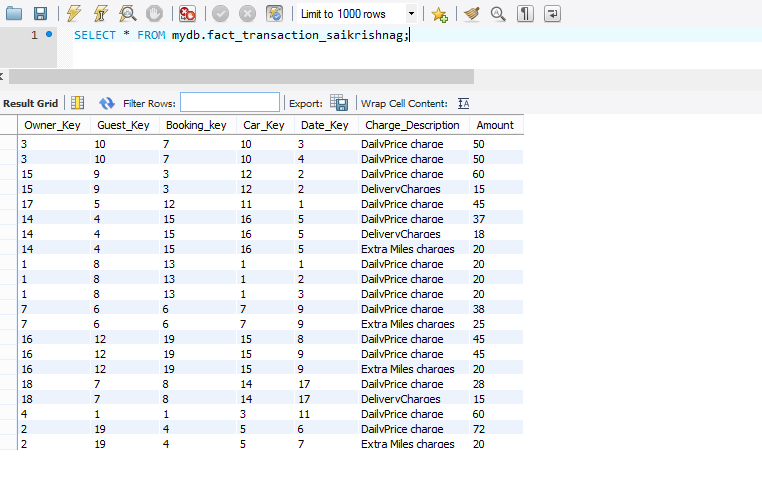
Booking Dimensions captures details releated to Booking.



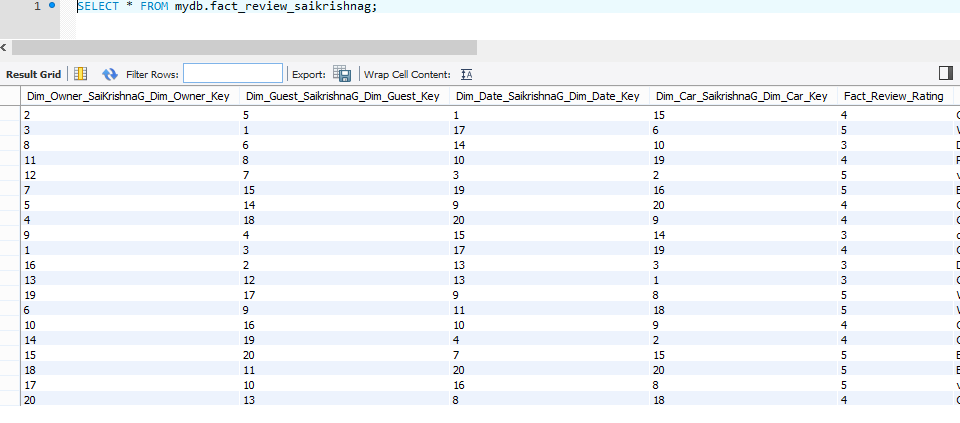
1) Fact\_Transaction\_SaiKrishnaG

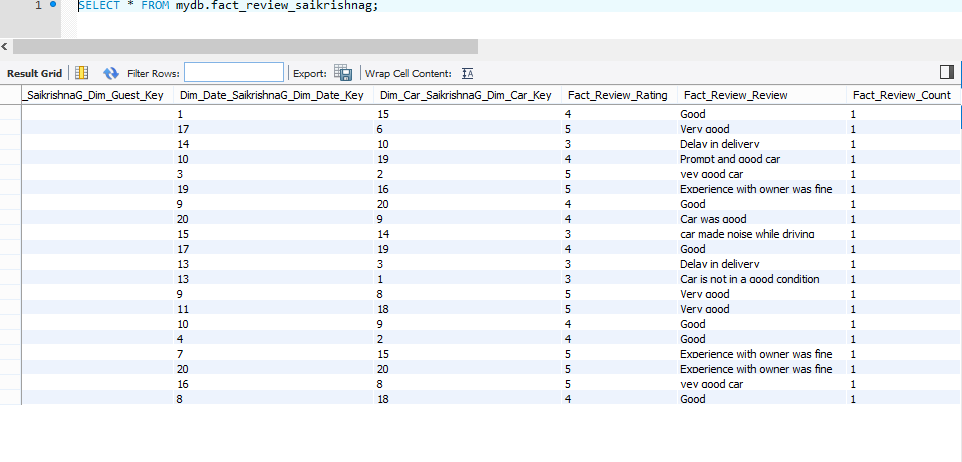
Grain of the Fact\_Transaction\_SaiKrishnaG Table is per owner per guest per car per booking per day per charge.

By grouping owner,guest,car,booking we can get the amount charged for the trip.

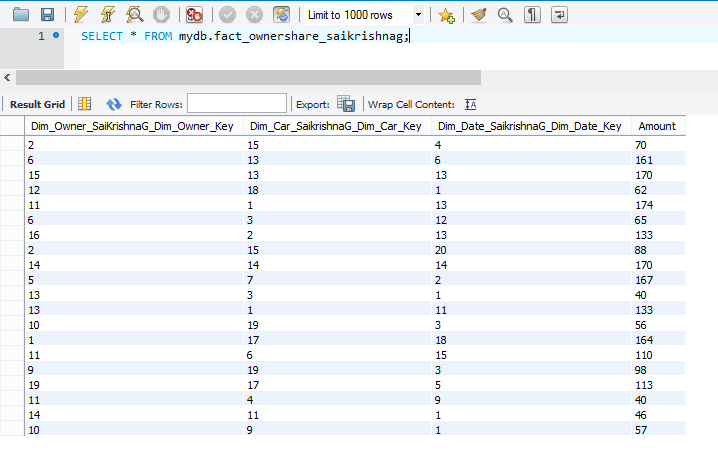
2) Fact\_Reiview\_SaiKrishnaG

Grain of the Fact Table Fact\_Review\_SaikrishnaG is per owner per Guest per car per review.



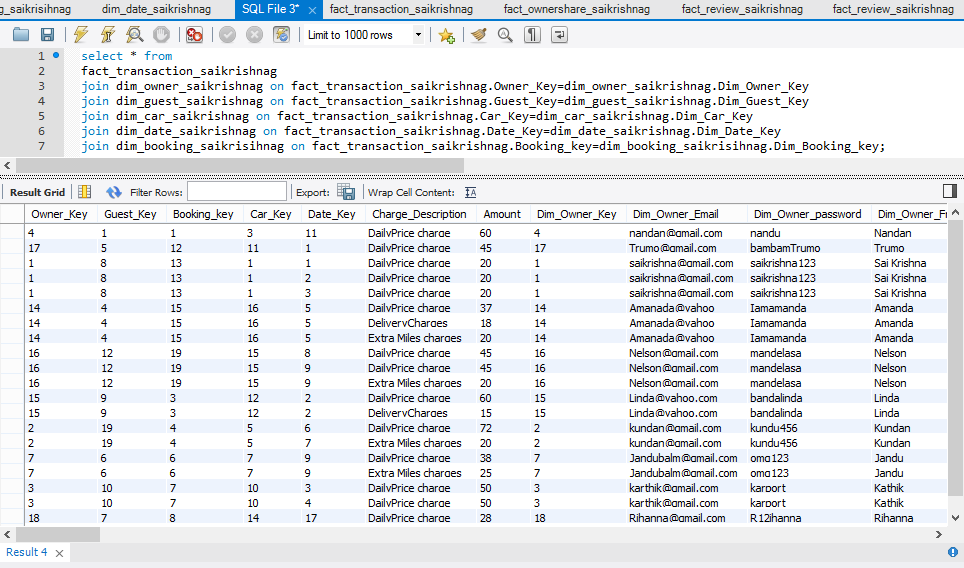
3)Fact\_OwnerShare\_SaiKrishnaG

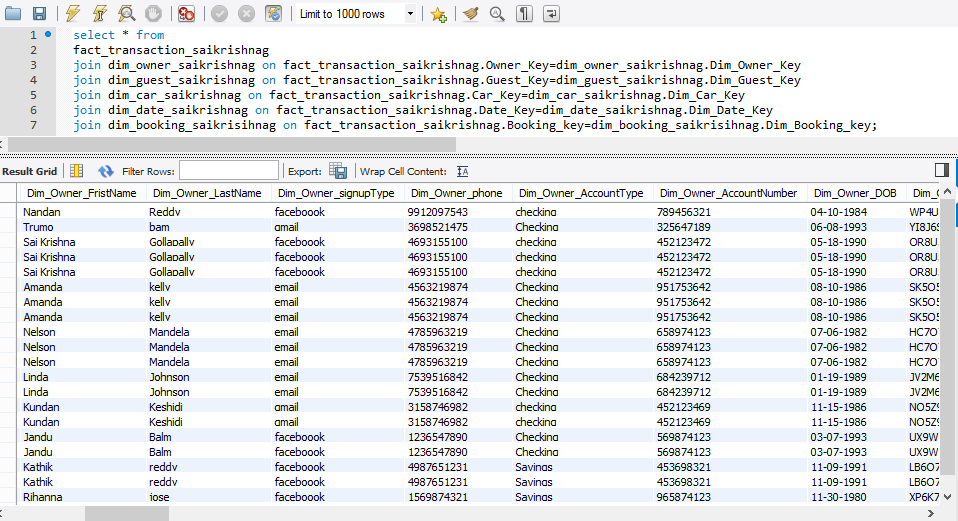
Grain of the fact table is per owner per car per payment

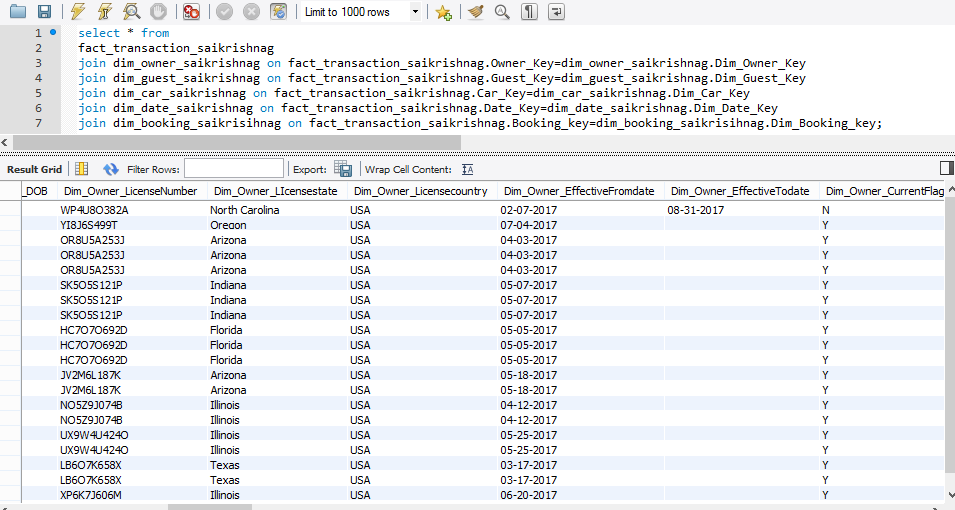


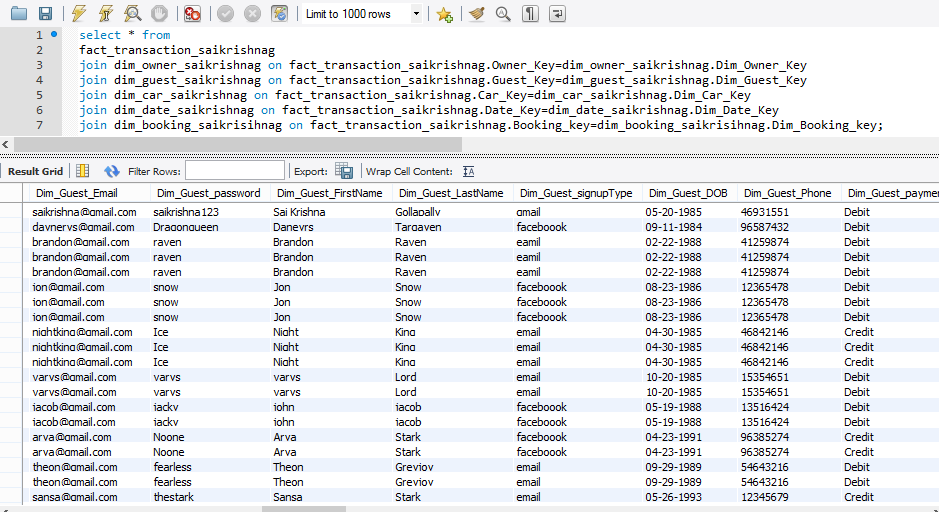
Below is the main Fact Table i,e Fact\_Transaction\_SaikrishnaG from which the queries such as Total Revenue per car booked per Guest by city, zip, region, by month can be answered.

After joining all dimensions with the fact table the data is as below.

There is no duplicity of data and each record is unique. 



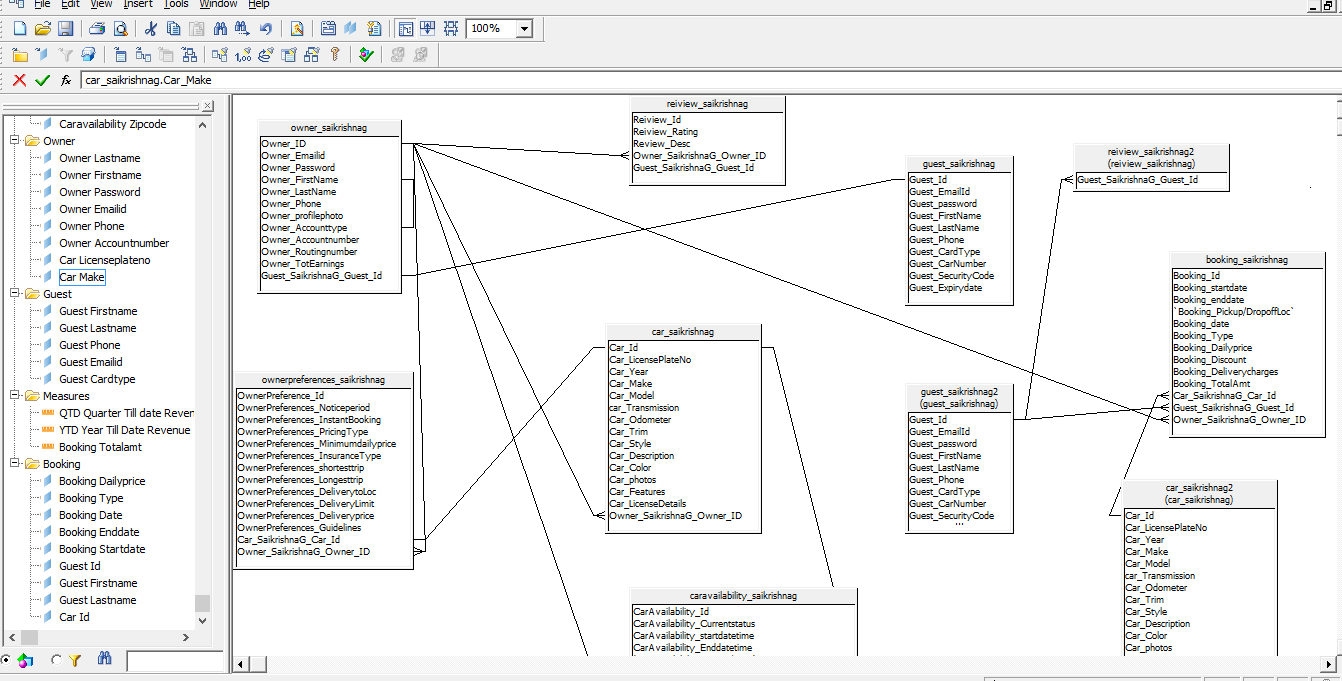




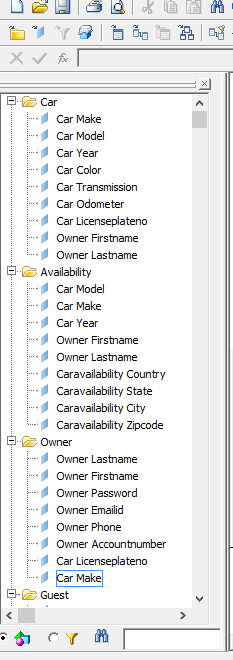
**3.Using SAP Business Objects Tool**

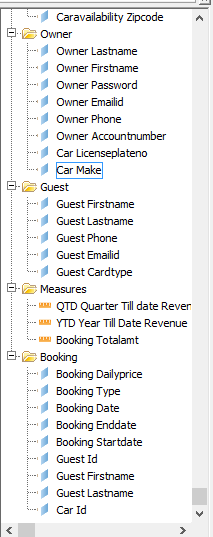
**The designs are in the files “ Dimensionalmodel-UDT” and “ERmodel-UDT”**

ER model Universe in UDT

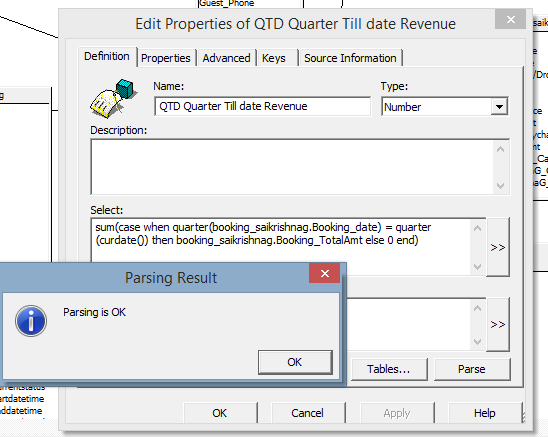


Object Panel Of ER Model in UDT

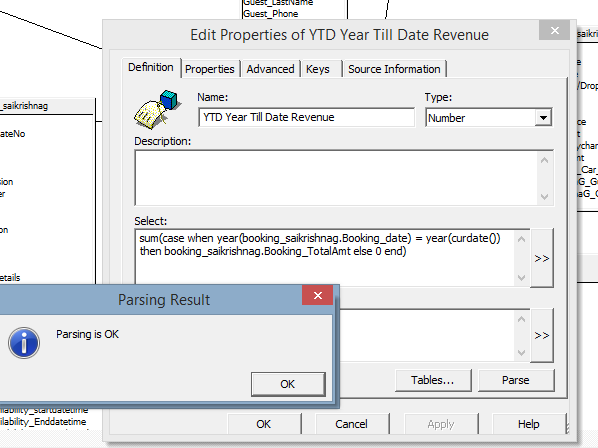




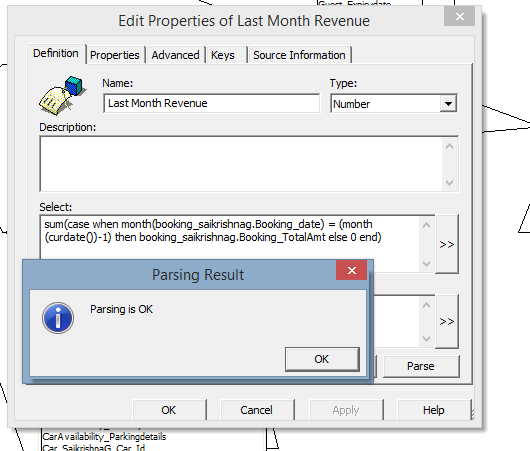
Query of QTD (ER model ) in UDT



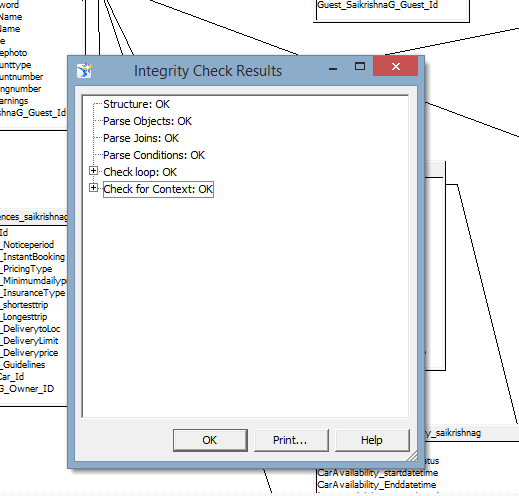
Query of YTD in UDT



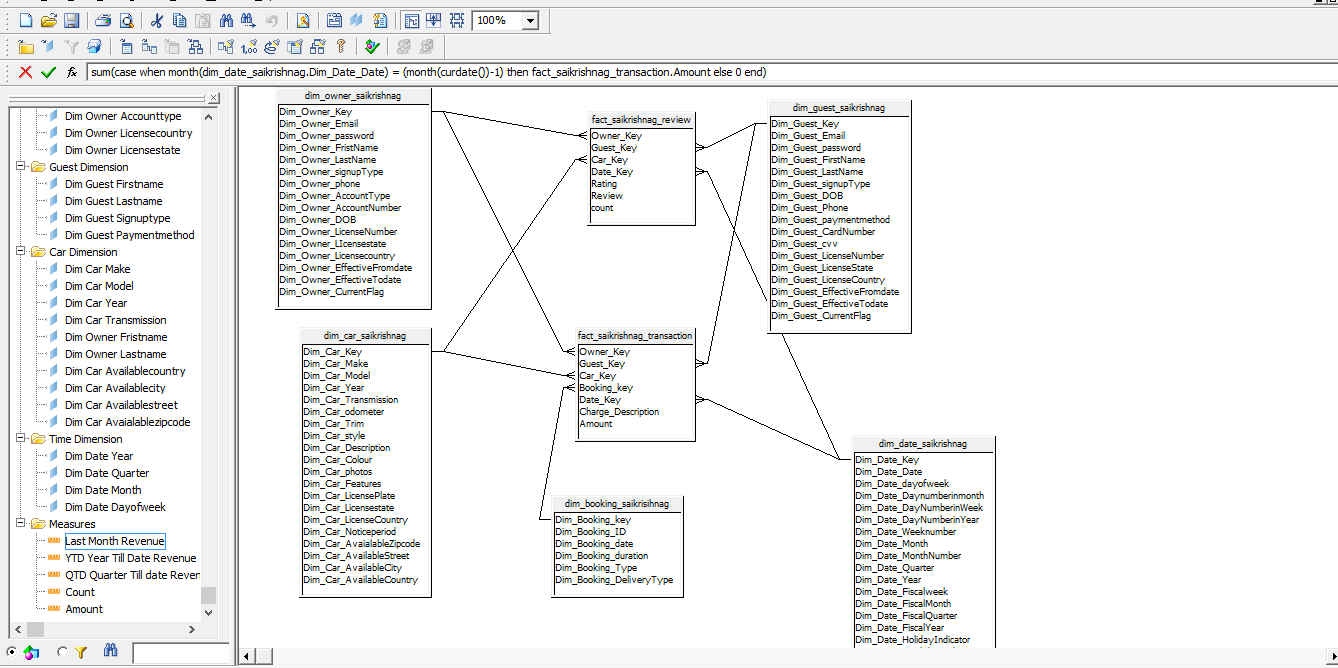
Query of Last month revenue collected



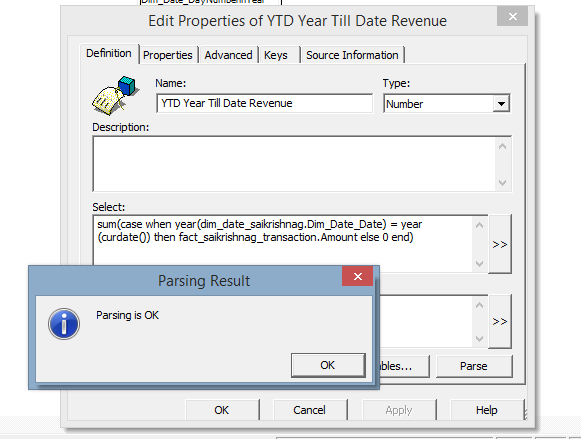
Integrity Check of ER model Universe in UDT



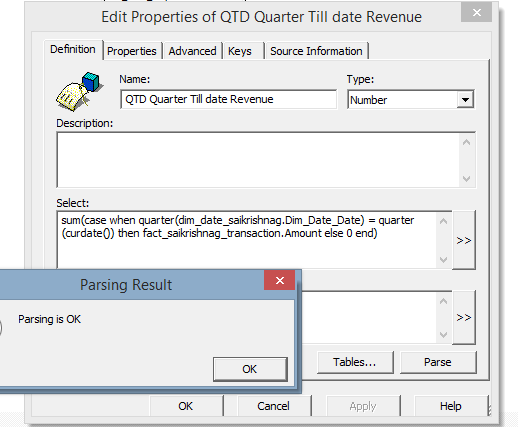
Dimensonal model Snapshot in UDT



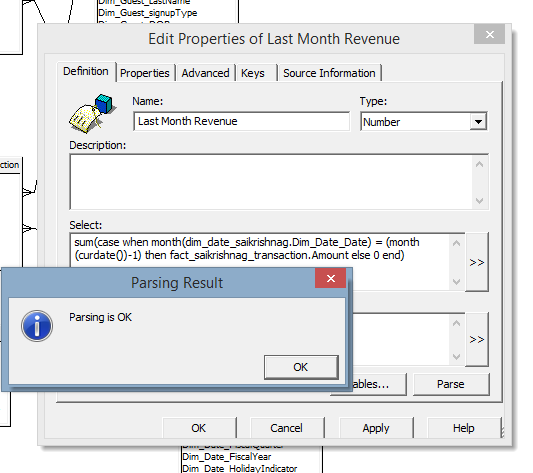
Year Till date Query for Dimensional model in UDT



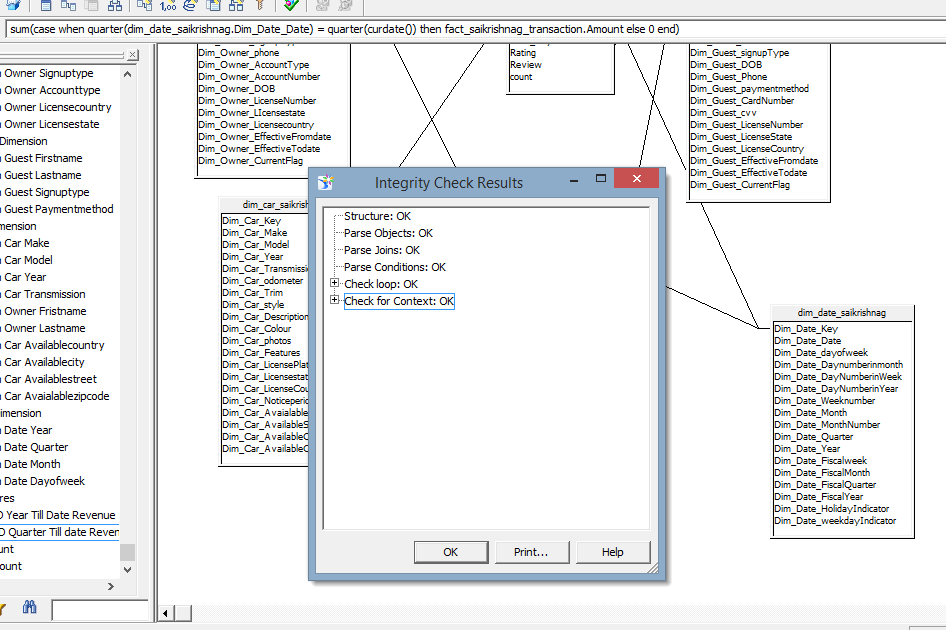
Query for YTD of Dimensional model in UDT



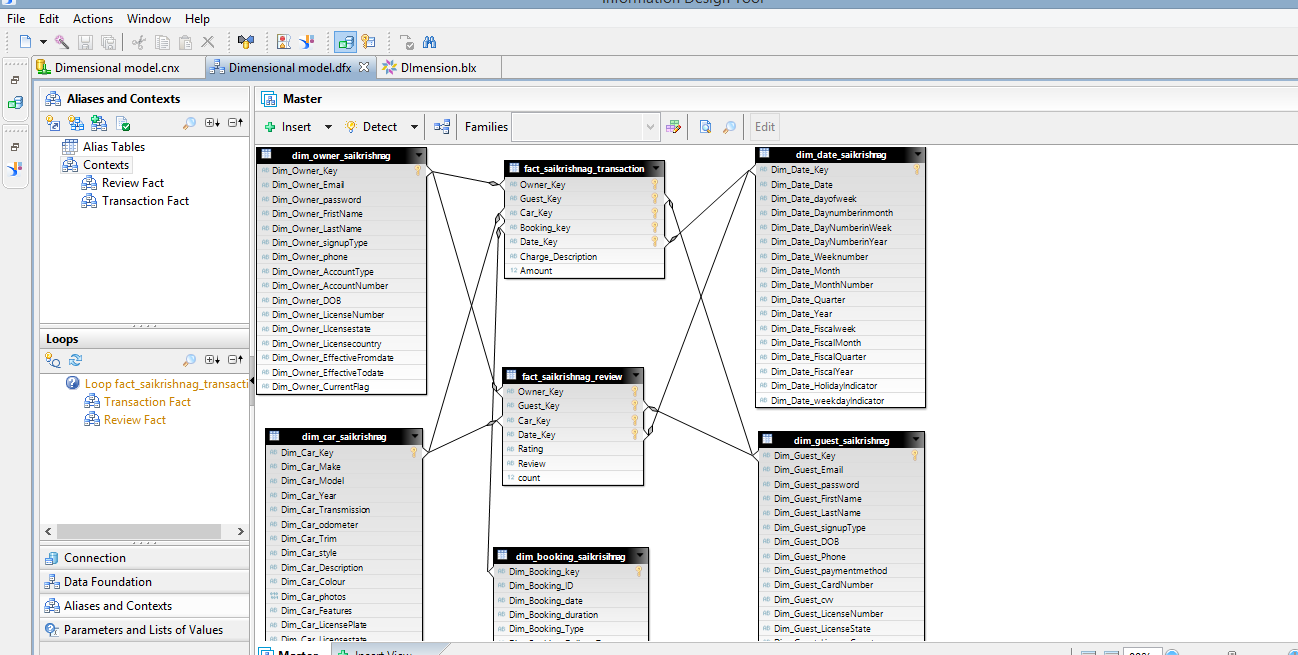
Last Month Revenue snapshot in UDT(Dimensional model)



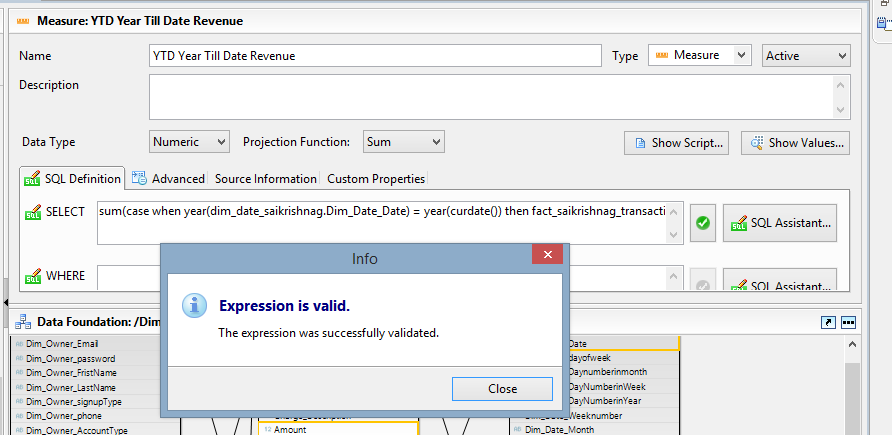
Integrity Check Result

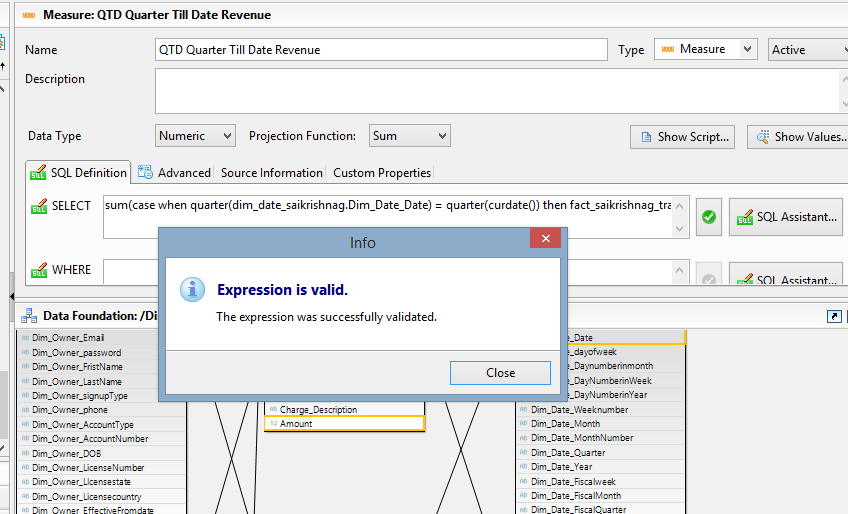


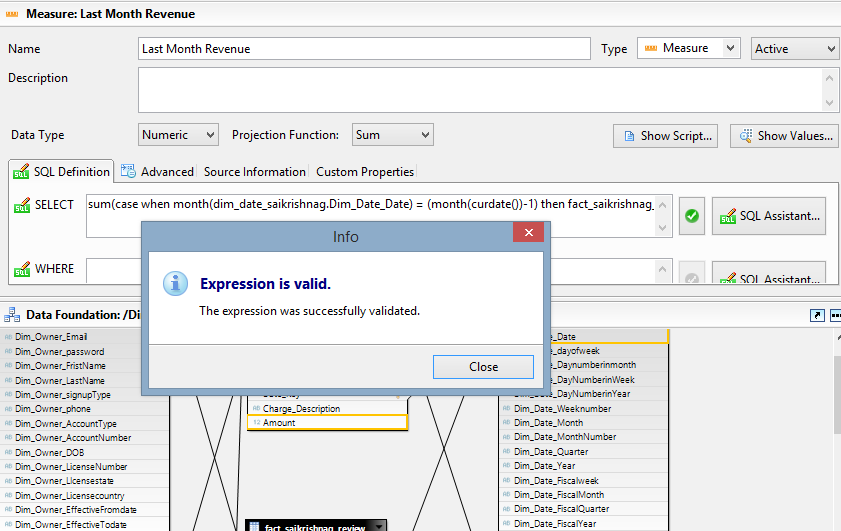
Snapshot of Universe of dimensional model in IDT



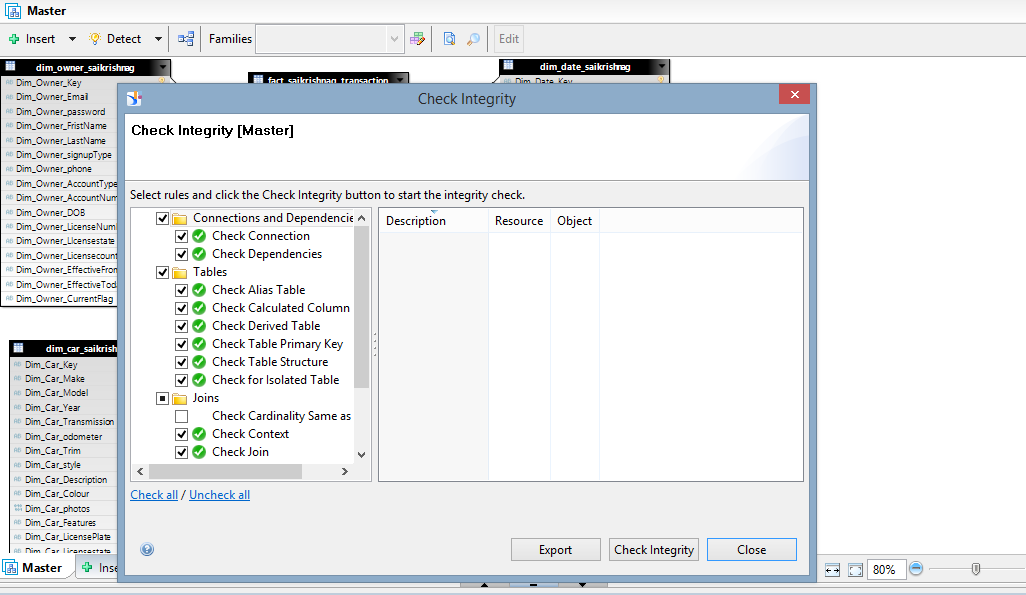
Snapshot of YTD, QTD of Dimensional model





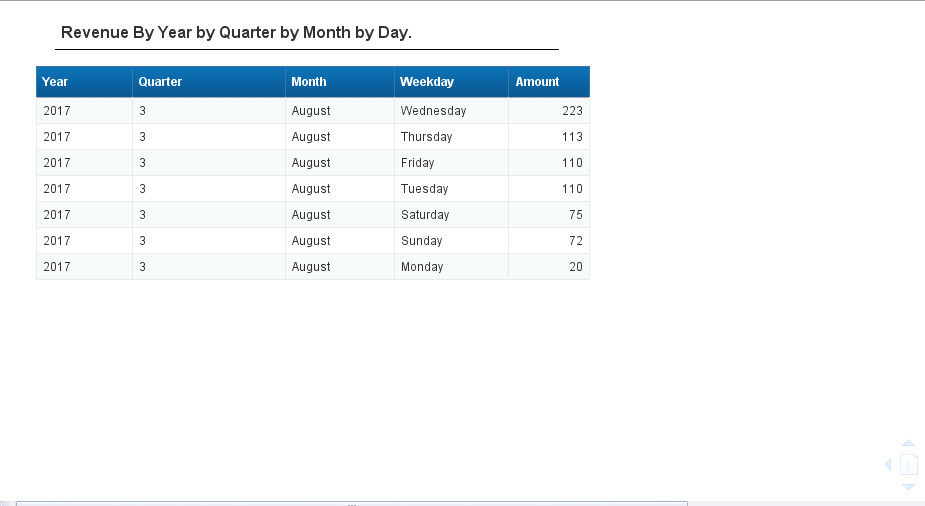


Integrity Check of Dimensional model in IDT



**Sample SAP Webi Reports**





Dashboard in Webi

