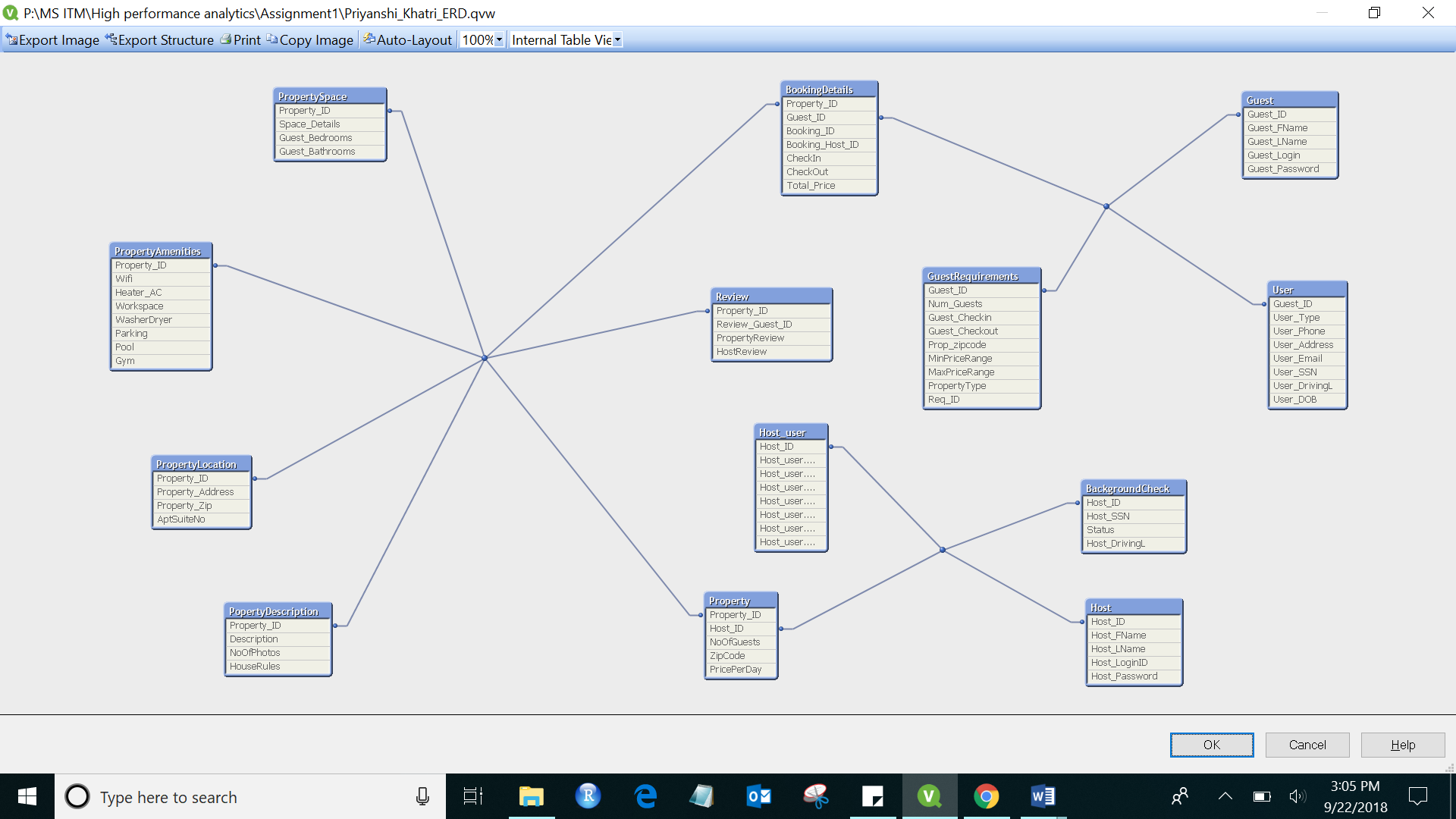
[**MIS 6345.0W1 - High Performance Analytics - F18**](https://elearning.utdallas.edu/webapps/blackboard/execute/launcher?type=Course&id=_141999_1&url=)

**Assignment 1**

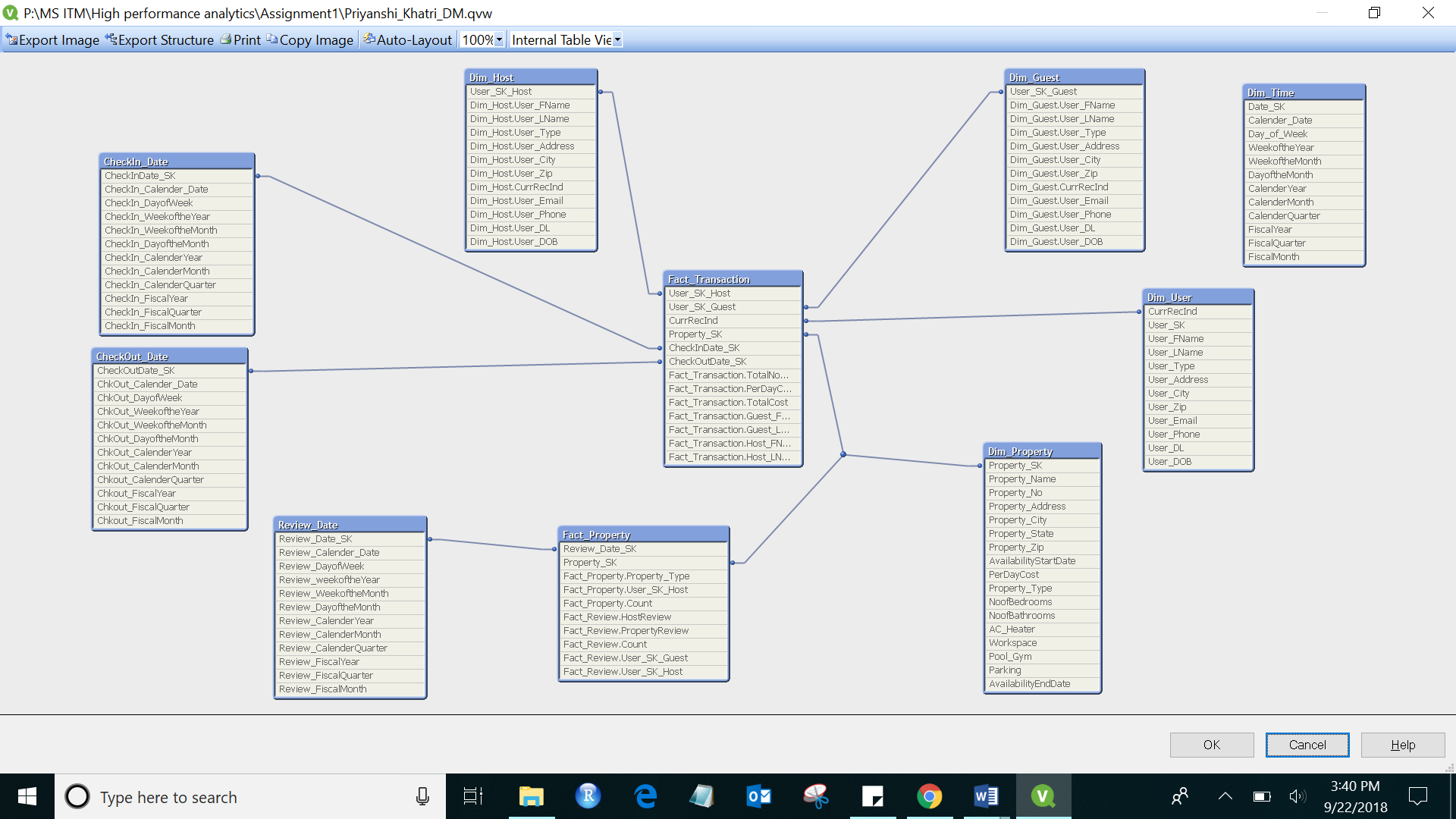
**By – Priyanshi Khatri(pxk173330)**

**ERD Script and Data Model**



**SET** ***ThousandSep***=',';  
**SET** ***DecimalSep***='.';  
**SET** ***MoneyThousandSep***=',';  
**SET** ***MoneyDecimalSep***='.';  
**SET** ***MoneyFormat***='$#,##0.00;($#,##0.00)';  
**SET** ***TimeFormat***='h:mm:ss TT';  
**SET** ***DateFormat***='M/D/YYYY';  
**SET** ***TimestampFormat***='M/D/YYYY h:mm:ss[.fff] TT';  
**SET** ***MonthNames***='Jan;Feb;Mar;Apr;May;Jun;Jul;Aug;Sep;Oct;Nov;Dec';  
**SET** ***DayNames***='Mon;Tue;Wed;Thu;Fri;Sat;Sun';  
**SET** ***LongMonthNames***='January;February;March;April;May;June;July;August;September;October;November;December';  
**SET** ***LongDayNames***='Monday;Tuesday;Wednesday;Thursday;Friday;Saturday;Sunday';  
**SET** ***FirstWeekDay***=6;  
**SET** ***BrokenWeeks***=1;  
**SET** ***ReferenceDay***=0;  
**SET** ***FirstMonthOfYear***=1;  
**SET** ***CollationLocale***='en-US';  
  
OLEDB **CONNECT32** TO [Provider=SQLOLEDB.1;Integrated Security=SSPI;Persist Security Info=False;Initial Catalog=Airbnb database;Data Source=DESKTOP-DM14P0H\SQLEXPRESS01;Use Procedure for Prepare=1;Auto Translate=True;Packet Size=4096;Workstation ID=DESKTOP-DM14P0H;Use Encryption for Data=False;Tag with column collation when possible=False];

//Multiple Select Statements//  
BackgroundCheck:  
**LOAD** "Host\_SSN",  
 Status,  
 "Host\_DrivingL",  
 "Host\_ID";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.BackgroundCheck;  
  
BookingDetails:  
**LOAD** "Booking\_ID",  
 "Host\_ID" as "Booking\_Host\_ID",  
 CheckIn,  
 CheckOut,  
 "Property\_ID",  
 "Total\_Price",  
 "Guest\_ID";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.BookingDetails;  
  
Guest:  
**LOAD** "Guest\_ID",  
 "Guest\_FName",  
 "Guest\_LName",  
 "Guest\_Login",  
 "Guest\_Password";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.Guest;  
  
GuestRequirements:  
**LOAD** "Guest\_ID",  
 NoOfGuests as Num\_Guests,  
 CheckIn as Guest\_Checkin,  
 CheckOut as Guest\_Checkout,  
 "Property\_Zip" as "Prop\_zipcode",  
 MinPriceRange,  
 MaxPriceRange,  
 PropertyType,  
 "Req\_ID";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.GuestRequirements;  
  
Host:  
**LOAD** "Host\_FName",  
 "Host\_LName",  
 "Host\_ID",  
 "Host\_LoginID",  
 "Host\_Password";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.Host;  
  
Property:  
**LOAD** "Property\_ID",  
 NoOfGuests,  
 "Host\_ID",  
 ZipCode,  
 PricePerDay;  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.Property;  
  
PopertyDescription:**LOAD** Description,  
 NoOfPhotos,  
 "Property\_ID",  
 HouseRules;  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.PropDesc;  
  
PropertyAmenities:  
**LOAD** Wifi,  
 "Heater\_AC",  
 Workspace,  
 WasherDryer,  
 Parking,  
 Pool,  
 Gym,  
 "Property\_ID";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.PropAmenities;  
  
PropertyLocation:  
**LOAD** "Property\_Address",  
 "Property\_Zip",  
 AptSuiteNo,  
 "Property\_ID";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.PropLocation;  
  
PropertySpace:  
**LOAD** "Property\_ID",  
 "Space\_Details",  
 "Guest\_Bedrooms",  
 "Guest\_Bathrooms";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.PropSpace;  
  
Review:  
**LOAD** "Property\_ID",  
 "Guest\_ID" as "Review\_Guest\_ID",  
 PropertyReview,  
 HostReview;  
**SQL** SELECT \*  
FROM "Airbnb database".dbo.Reviews;  
  
User:  
**LOAD** "User\_ID" as "Guest\_ID",  
 "User\_Type",  
 //"User\_FName",  
 //"User\_LName",  
 "User\_Phone",  
 "User\_Address",  
 "User\_Email",  
 "User\_SSN",  
 "User\_DrivingL",  
 "User\_DOB";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo."User";  
  
**QUALIFY**\*;  
**UNQUALIFY** Host\_ID;  
Host\_user:  
**LOAD** "Guest\_ID" as "Host\_ID",  
 "User\_Type",  
 //"User\_FName",  
 //"User\_LName",  
 "User\_Phone",  
 "User\_Address",  
 "User\_Email",  
 "User\_SSN",  
 "User\_DrivingL",  
 "User\_DOB"  
Resident User;  
//Ending Select Statements//

**Dimensional Model Script and Model**  
  


**SET** ***ThousandSep***=',';  
**SET** ***DecimalSep***='.';  
**SET** ***MoneyThousandSep***=',';  
**SET** ***MoneyDecimalSep***='.';  
**SET** ***MoneyFormat***='$#,##0.00;($#,##0.00)';  
**SET** ***TimeFormat***='h:mm:ss TT';  
**SET** ***DateFormat***='M/D/YYYY';  
**SET** ***TimestampFormat***='M/D/YYYY h:mm:ss[.fff] TT';  
**SET** ***MonthNames***='Jan;Feb;Mar;Apr;May;Jun;Jul;Aug;Sep;Oct;Nov;Dec';  
**SET** ***DayNames***='Mon;Tue;Wed;Thu;Fri;Sat;Sun';  
**SET** ***LongMonthNames***='January;February;March;April;May;June;July;August;September;October;November;December';  
**SET** ***LongDayNames***='Monday;Tuesday;Wednesday;Thursday;Friday;Saturday;Sunday';  
**SET** ***FirstWeekDay***=6;  
**SET** ***BrokenWeeks***=1;  
**SET** ***ReferenceDay***=0;  
**SET** ***FirstMonthOfYear***=1;  
**SET** ***CollationLocale***='en-US';  
  
OLEDB **CONNECT32** TO [Provider=SQLOLEDB.1;Integrated Security=SSPI;Persist Security Info=False;Initial Catalog=Airbnb database;Data Source=DESKTOP-DM14P0H\SQLEXPRESS01;Use Procedure for Prepare=1;Auto Translate=True;Packet Size=4096;Workstation ID=DESKTOP-DM14P0H;Use Encryption for Data=False;Tag with column collation when possible=False];

//Dimensions and Fact Tables  
  
Dim\_Property:  
**LOAD** "Property\_SK",  
 "Property\_Name",  
 "Property\_No",  
 "Property\_Address",  
 "Property\_City",  
 "Property\_State",  
 "Property\_Zip",  
 AvailabilityStartDate,  
 PerDayCost,  
 "Property\_Type",  
 NoofBedrooms,  
 NoofBathrooms,  
 "AC\_Heater",  
 Workspace,  
 "Pool\_Gym",  
 Parking,  
 AvailabilityEndDate;  
**SQL** SELECT \*  
FROM "Airbnb database".dbo."Dim\_Property";  
  
Dim\_Time:  
**LOAD** "Date\_SK",  
 "Calender\_Date",  
 "Day\_of\_Week",  
 WeekoftheYear,  
 WeekoftheMonth,  
 DayoftheMonth,  
 CalenderYear,  
 CalenderMonth,  
 CalenderQuarter,  
 FiscalYear,  
 FiscalQuarter,  
 FiscalMonth;  
**SQL** SELECT \*  
FROM "Airbnb database".dbo."Dim\_Time";  
  
CheckIn\_Date:  
**LOAD** "Date\_SK" as "CheckInDate\_SK",  
 "Calender\_Date"as "CheckIn\_Calender\_Date",  
 "Day\_of\_Week" as "CheckIn\_DayofWeek",  
 WeekoftheYear as CheckIn\_WeekoftheYear,  
 WeekoftheMonth as CheckIn\_WeekoftheMonth,  
 DayoftheMonth as CheckIn\_DayoftheMonth,  
 CalenderYear as CheckIn\_CalenderYear,  
 CalenderMonth as CheckIn\_CalenderMonth,  
 CalenderQuarter as CheckIn\_CalenderQuarter,  
 FiscalYear as CheckIn\_FiscalYear,  
 FiscalQuarter as CheckIn\_FiscalQuarter,  
 FiscalMonth as CheckIn\_FiscalMonth  
Resident Dim\_Time;  
  
CheckOut\_Date:  
**LOAD** "Date\_SK" as "CheckOutDate\_SK",  
 "Calender\_Date" as "ChkOut\_Calender\_Date",  
 "Day\_of\_Week" as "ChkOut\_DayofWeek" ,  
 WeekoftheYear as ChkOut\_WeekoftheYear,  
 WeekoftheMonth as ChkOut\_WeekoftheMonth,  
 DayoftheMonth as ChkOut\_DayoftheMonth,  
 CalenderYear as ChkOut\_CalenderYear,  
 CalenderMonth as ChkOut\_CalenderMonth,  
 CalenderQuarter as Chkout\_CalenderQuarter,  
 FiscalYear as Chkout\_FiscalYear,  
 FiscalQuarter as Chkout\_FiscalQuarter,  
 FiscalMonth as Chkout\_FiscalMonth  
Resident Dim\_Time;  
  
Review\_Date:  
**LOAD** "Date\_SK" as "Review\_Date\_SK",  
 "Calender\_Date" as "Review\_Calender\_Date",  
 "Day\_of\_Week" as "Review\_DayofWeek",  
 WeekoftheYear as "Review\_weekoftheYear",  
 WeekoftheMonth as "Review\_WeekoftheMonth",  
 DayoftheMonth as Review\_DayoftheMonth,  
 CalenderYear as Review\_CalenderYear,  
 CalenderMonth as Review\_CalenderMonth,  
 CalenderQuarter as Review\_CalenderQuarter,  
 FiscalYear as Review\_FiscalYear,  
 FiscalQuarter as Review\_FiscalQuarter,  
 FiscalMonth as Review\_FiscalMonth  
Resident Dim\_Time;  
  
Dim\_User:  
**LOAD** "User\_SK",  
 "User\_FName",  
 "User\_LName",  
 "User\_Type",  
 "User\_Address",  
 "User\_City",  
 "User\_Zip",  
 CurrRecInd,  
 "User\_Email",  
 "User\_Phone",  
 "User\_DL",  
 "User\_DOB";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo."Dim\_User";  
  
**QUALIFY**\*;  
**UNQUALIFY** User\_SK\_Host;  
Dim\_Host:  
**LOAD** "User\_SK" as "User\_SK\_Host",  
 "User\_FName",  
 "User\_LName",  
 "User\_Type",  
 "User\_Address",  
 "User\_City",  
 "User\_Zip",  
 CurrRecInd,  
 "User\_Email",  
 "User\_Phone",  
 "User\_DL",  
 "User\_DOB"  
Resident Dim\_User;  
  
**QUALIFY**\*;  
**UNQUALIFY** User\_SK\_Guest;  
Dim\_Guest:  
**LOAD** "User\_SK" as "User\_SK\_Guest",  
 "User\_FName",  
 "User\_LName",  
 "User\_Type",  
 "User\_Address",  
 "User\_City",  
 "User\_Zip",  
 CurrRecInd,  
 "User\_Email",  
 "User\_Phone",  
 "User\_DL",  
 "User\_DOB"  
Resident Dim\_User;  
  
**QUALIFY**\*;  
**UNQUALIFY** "Property\_SK","CheckInDate\_SK","CheckOutDate\_SK","User\_SK\_Guest","User\_SK\_Host",CurrRecInd;  
Fact\_Transaction:  
**LOAD** "Property\_SK",  
 TotalNoOfDays,  
 PerDayCost,  
 TotalCost,  
 "Guest\_FName",  
 "Guest\_LName",  
 "Host\_FName",  
 "Host\_LName",  
 CurrRecInd,  
 "User\_SK\_Guest",  
 "User\_SK\_Host",  
 "CheckInDate\_SK",  
 "CheckOutDate\_SK";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo."Fact\_Transaction";  
  
**QUALIFY**\*;  
**UNQUALIFY** "Property\_SK";  
Fact\_Property:  
**LOAD** "Property\_Type",  
 "User\_SK\_Host",  
 "Property\_SK",  
 "Count";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo."Fact\_Property";  
  
**QUALIFY**\*;  
**UNQUALIFY** Property\_SK,Review\_Date\_SK;  
Concatenate  
Fact\_Review:  
**LOAD** "Property\_SK",  
 HostReview,  
 PropertyReview,  
 "Count",  
 "User\_SK\_Guest",  
 "Review\_Date\_SK",  
 "User\_SK\_Host";  
**SQL** SELECT \*  
FROM "Airbnb database".dbo."Fact\_Review";