MIS 6309 – Business Data Warehousing
Assignment# 2 – Deadline: 10/07/2017 11pm

Dimensional Model for TURO

About Turo

Turo is a car rental marketplace where travelers can rent any car they want, wherever they want it, from a vibrant community of local car owners. Travelers choose from a totally unique selection of nearby cars, while car owners earn extra money and help fuel their adventures. It connects the Owners with Guests. **Owners** are people who list their cars on the website. **Guests** are people who rent the cars. To read more on how it works, visit https://turo.com/how-turo-works

Scope

- The scope is limited to what is asked for in the Business Requirements section.
- You do not require a 100% correct ER model for this assignment.

Business Requirements

- A user can sign up via Facebook, Google or via email and create an account
- An Owner can be a Guest too.
- You must capture the details of the listed cars in your design.
- A Host (when listing a car) provides information such as – license plate number, issuing country, state, photos of the car, location of the car, year, make, model, transmission, odometer, owner's photo, owner's date of birth, details of car availability, car description and car features
- The guest can leave reviews for the car, and about the host. Your design should be able to capture history of the reviews.
    - Your design should allow the business users to view reviews given per car, per guest, per host, per month etc.
- Your design should capture car-booking details. This includes the number of days a car is booked for, the total amount billed to the guest, and details about the guest or the host for the transaction
    - Your design should allow the business users to run reports to get the total revenue/no of cars booked per guest, by the city, apartment zip, by region, by month etc.

Table Naming Convention

Use your FirstName and Last Initial as Suffix for the table names, both in MySQL Workbench and MySQL Server. For example, my User Dimension table will be named as Dim_User_KashifS.

Tasks

1. Design a Dimensional Model for the application in MySQL.
2. Create Bus Architecture for your data warehouse using Excel.
3. Implement physical tables in MySQL using MySQL Workbench.
4. Populate your tables with at least 20 records each in MySQL Server (wherever applicable)

Make sure all physical tables and the MySQL Workbench model follow the naming convention or the assignment is not acceptable.

Due Date for the assignment is **10/07/2017 11pm**. There is a 10% penalty per day past due date.

Assignment Submission Guidelines

All Assignment must be submitted via eLearning. Emailed assignments are not accepted. Your submission should include the following in a .zip file named as FirstName-LastName-Assign#.zip:

1. Your MySQL Workbench File
2. Your Bus Architecture in Excel
3. MS Word document containing screenshots of your MySQL Workbench model and your database

Note that you will need this database for future assignments.

Approximate Work Effort

It will take you roughly 6-8 hours to complete the assignment. Do not wait until the last minutes to start.

What is acceptable for the level of collaboration?
- Helping class mates with learning the MySQL Server and MySQL Workbench tools
- Discussing the assignment and/or business rules you are using

What is not acceptable for the level of collaboration and counts as Cheating?
- Sharing or showing your Dimesnional model
- Sharing or showing your MySQL database
- Providing snapshots of your MySQL database to others

TA Availability and Engagement

Below are the rules for TA availability and engagement:

- **Mode of Communication:** The TA is only available via email or only during her office hours. No other mode of communication is acceptable. You will lose 5 points every time you try to connect with the TA via other modes of communication (whatsapp, facebook, etc.)