18CSC303J/ Compiler Design

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Exp-5: CONSTRUCT AN ER-DIAGRAM FOR A PARTICULAR SCENARIO

Aim: To draw an ER-diagram for a Restaurant Aggregator Website (e.g. Zomato, swiggy) and Car Insurance Company.

Tool used: Draw.io

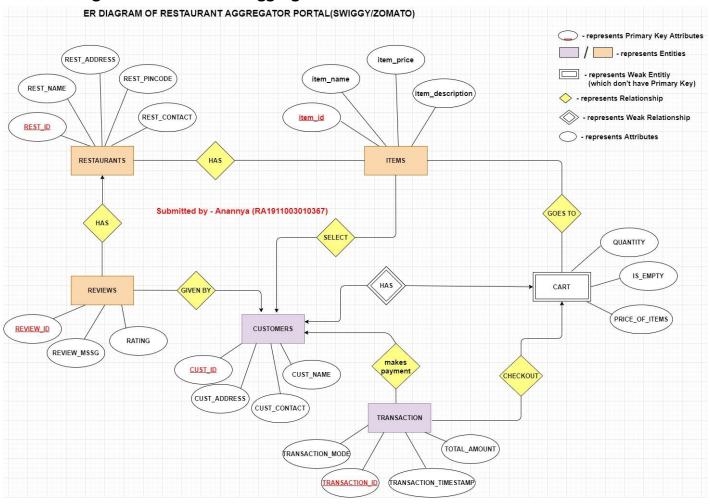
Procedure:

A workflow created to facilitate the creation of the diagram for Restaurant Aggregator.

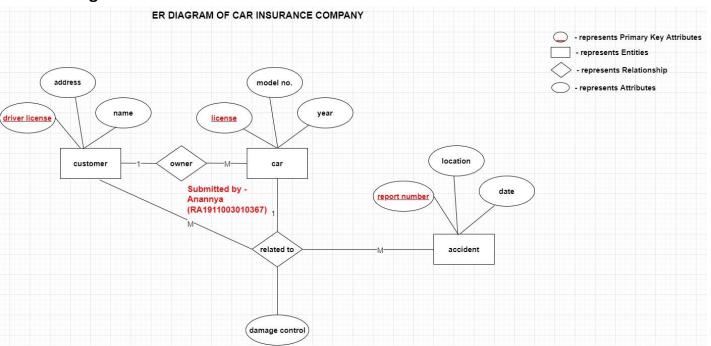
- 1. Mention all the entities involved Restaurants, Items (menu Items for all the restaurants), Customers, Reviews (by customers for different restaurants), Transaction. Represent them as rectangles in the diagram.
- 2. For each entity, all its attributes are drawn inside an ellipse and a primary key is represented as underlined text inside an ellipse.
- 3. All the Relationships drawn are as follows:
 - Each restaurant has many menu items and each menu item might belong to many restaurants and hence many to many cardinality.
 - Each restaurant has many reviews and each review belongs to one restaurant only hence it's one to many relationship.
 - One menu item can be selected by many customers and one customer can select more than one menu items hence it's many to many cardinality.
 - Each customer has a single cart and each cart belongs to a single customer hence it's one to one relationship.
 - From one cart, multiple transactions are possible but a given transaction belongs to an individual cart hence it's one to many transactions.
- 4. Cart is a weak entity as it's unique for each individual so we don't need to assign a primary key to it.
- > Same procedure for making the diagram of Car Insurance

Output:

ER Diagram of Restaurant Aggregator Portal



• ER Diagram of Car Insurance



Result: Hence the ER diagram for the Restaurant Aggregator and Car Insurance is being constructed using the above-mentioned tool draw.io