**Database Design - Project**

Part I: data requirements for the doordash system:

· The doordash system is maintaining a number of partner restaurants brands. Each restaurant brand should have one or more restaurants (restaurant). Each restaurant has a unique id, name, address, email, phone number and rating.

· Each restaurant brand should have a unique id and a unique name.

· Restaurants are categorized based on types. There are 17 main types such as Fast Food, Mexican, Chinese etc. Each restaurant should have one or more categories.

· Assumption: There are three kinds of accounts: customer, admin and dasher. Each restaurant branch should have one admin to maintain the listing items.

· Each restaurant provides food items. Each item has a unique id, name, food category, price, description, photo, required selections, optional additions.

· The doordash system has a number of registered customers. Each customer has a unique id, name, email address and phone number.

· Each customer may or may not purchase a DashPass for free delivery.

· Each customer may have multiple payment cards and multiple delivery addresses.

· Each card has a unique id(no need), cardholder name, card number, expiration date, and security code.

· Each address has a unique id, street, city, state, zip code, apt number, drop-off option and drop-off instruction.

· The doordash system has a number of registered dashers. Each dasher has a unique id, name, email address, phone number and SSN. The dashers can have vehicles for delivery.

· Vehicles for dashers are either cars or bicycles. Each car has a make, model and color.

· Each dasher can schedule durations of time at a certain location they are available for delivery, where each location and duration has an associated bonus for each delivery.

· Each dasher has number of deliveries completed, number of stars rated by customer, number of delivery rated by customer, number of delivery opportunities received, number of delivery accepted and number of delivery completed on time or early.

· Each dasher has earnings from the scheduled time, with multiple deliveries, including customer tip, base pay, peak pay per delivery.

· Each dasher can have a bank account number where they can deposit earnings.

· Customers can place orders. Each order is placed with a unique delivery id at a certain time and is taken by a dasher. Each order contains specified quantities of one or more food items from a single restaurant. Each order has a receipt, delivery address, status, date placed.

· Each receipt shows items ordered, price paid for each item, subtotal, delivery fee, service fee, dasher tip, tax and total amount.

· Each restaurant and dasher is rated by customers from 1 star to 5 stars on a delivery basis.

· Each rating is associated with multiple tags and one optional feedback.