**- Description of project:**

Food Delivery Service Database: We want to build a database that keeps track of data necessary for a food delivery service app (like Grubhub or UberEats) to run.

Here is a list of data we want to keep track of:

* Delivery orders started and completed by restaurants, drivers, and customers. Delivery orders contain info like food name, addresses, time, restaurant name, driver name, etc.
* Restaurant info, driver info, customer info.
* Payment method info, like credit card and bank account.
* Order history of customers.
* Delivery history of driver.
* Order history of restaurant.
* Customer reviews of restaurants and drivers. Like a rating and commenting system.

**- Requirements of the project:**

What is the business purpose or need?

The business needs to keep track of their user information. Organizing delivery orders and assigning drivers to do delivery. It also needs to keep track of all delivery history.

What is the problem you are trying to solve?

Coordinating restaurants, drivers, and customers. Provide useful business information to customers, restaurants and drivers.

What questions you will be answering?

Q1: How much does each driver earn (tips + delivery fee) in 2019?

Q2: What percentage of orders is placed in usual meal hours? Assume usual meal hours are: 7:00 am - 8:00 am, 12:00 pm - 1:00 pm, 6:00 pm - 7:00 pm.

Q3: Which food generates the most income for each restaurant?

**- Assumptions of the project:**

We assume that there is only one account per customer, and each customer has their own, individual account. For the delivery region, we assume restaurants and customers are all in the same city.

We also assume:

Each order must have only one customer to place the order. One customer can have many orders.

Each order must have only one restaurant to prepare food. One restaurant can have many orders.

Each order must have only one driver for delivering food. One driver can have many orders.

Each order must be paid with one credit card. One credit card can pay many orders.

Each food must be provided by a restaurant. One restaurant can have many foods.

Each driver must have one bank account to receive his/her paycheck. One bank account can be used to receive many driver’s paychecks.

Delivery assignments are decided by the system owner outside of the database.

Orders are created by the system owner.

**- Scope of the project:**

In scope: restaurant data, driver data, customer data, delivery order data, payment methods info.

Out of scope: driver location data, city map data, how the system assigns delivery jobs to drivers.

- **Project Design Approach:**

The following groups of data will make up many of our tables.

**Orders**

Possible attributes: order id, customer id, restaurant id, driver id, order date, order time, order address, order notes, isPaid, isDelivered, delivery fee, tip, coupon, credit card number, restaurant rating, restaurant comment, driver rating, driver comment.

**Customer**

Possible attributes: customerID, customer phone number, name, address

**Credit card**

Possible attributes: CC number, expiration date, name on the card.

**Restaurant**

Possible attributes: restaurant id, restaurant address, restaurant phone number, bank account number.

**Food**

Possible attributes: food id, food name, price.

**Driver**

Possible attribute: driver id, driver name, driver phone number, bank account number.

**Bank account**

Possible attributes: bank account number, bank name, routing number, account type.

**Food in Order**

Possible attributes: order id, food id, quantity