

# Extended ER Project

Uber

Group 6 Team Members:

*ANCY PETER JACOB, RITESH SUNIT PATIL, SHUBHAM CHAVAN,  
SIDDHANTIKA SANGRAMSINH, SWETHA SURESH, TEJA VENKAT*

The graphic features the Uber logo, which consists of the word "Uber" in a white, sans-serif font inside a large white circle. To the left of the circle are three white wavy lines. Below the circle is a white car icon, also inside a white circle. A grid of small white dots is positioned to the right of the Uber circle. The entire graphic is set against a black background.

# Uber



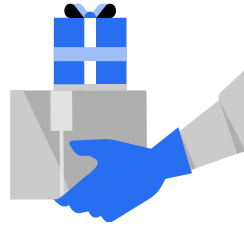
## Introduction

Uber Technologies, the largest ride-sharing firm in the world, was established in 2009 and expanded swiftly to become the most valuable startup in the world.

Uber is one of the most intriguing businesses to have emerged in recent years due to its disruptive technology, rapid expansion, and ongoing controversy.

In 2022, Uber had 122 million monthly active users worldwide and generated an average of 21 million trips per day. In the United States, as of May 2022, Uber had a 72% market share for ride-sharing and a 27% market share for food delivery.

Uber has operations in approximately 72 countries and 10,500 cities as of December 31, 2021.



Services  
provided by  
Uber

Uber

Uber Ride  
Uber Eats  
Uber Connect  
Uber Freight



# Company Goals



To deliver all potential transportation and logistical services where it operates.

To overtake the taxi business by offering the most affordable, simple rides worldwide.

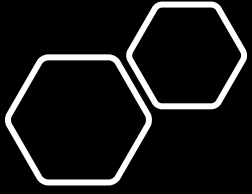
Set analytical standards to aid the organization in expanding into new areas and offering new products.

To integrate the provision of goods and services on demand.

Plan how to build a pool of new partners for market expansion.

Recognize limitations to make innovative and improved strategic decisions





# Uber Ride

- Uber is a transportation app developed to simplify smartphone taxi ordering. Users can request a variety of low-cost to high-end luxury transportation services through the Uber app.
- There are gaps in public transportation, despite cities best efforts. Uber is a tech-driven answer for the issue of transportation.



## Services provided by Uber

UberX	UberXL	Uber Transit	Uber Luxury	Uber Pool
Uber Green	Uber Black	Uber Black SUV	Uber WAV	Uber Taxi
Uber Flash	Uber Auto	Scooter Options	Uber Eats	

A background image of a delivery person wearing a blue helmet and a blue long-sleeved shirt, riding a bicycle. They are carrying a large green and white insulated delivery bag on their back with the 'Uber Eats' logo printed on it. The person is looking forward, and the background is a blurred city street.

# Uber Eats

---

Uber Eats operates on a model that includes the following steps:

- The customer searches the names of Restaurants/Dishes.
- The customer selects the restaurant/dish and places the order.
- Uber Eats driver pick up the order from the restaurant or the customer can use the pickup option himself to come and pick up in person.
- Order fulfillment and payment collection.

An illustration showing a delivery person on a black scooter with yellow accents, wearing a grey shirt and a black backpack. The scooter is moving from left to right. On the right, a woman in a white shirt and blue pants is standing and receiving a brown cardboard box. The background is a simple grey and white grid pattern.

# Uber Connect

- Uber Connect offer same-day delivery, whether you're selling clothes, shampoo, or freshly baked cakes.
- Uber Connect transfer documents, supplies, and equipment across sites or offices to keep things running smoothly.
- Work Flow : Select Package in the Uber app->Meet the driver and send your package on its way->Follow along with in-app tracking.

# Diagram- Legends



**Vehicle**



**UberEats**



**Payment**



**UberRide**



**Customer**



**UberConnect**

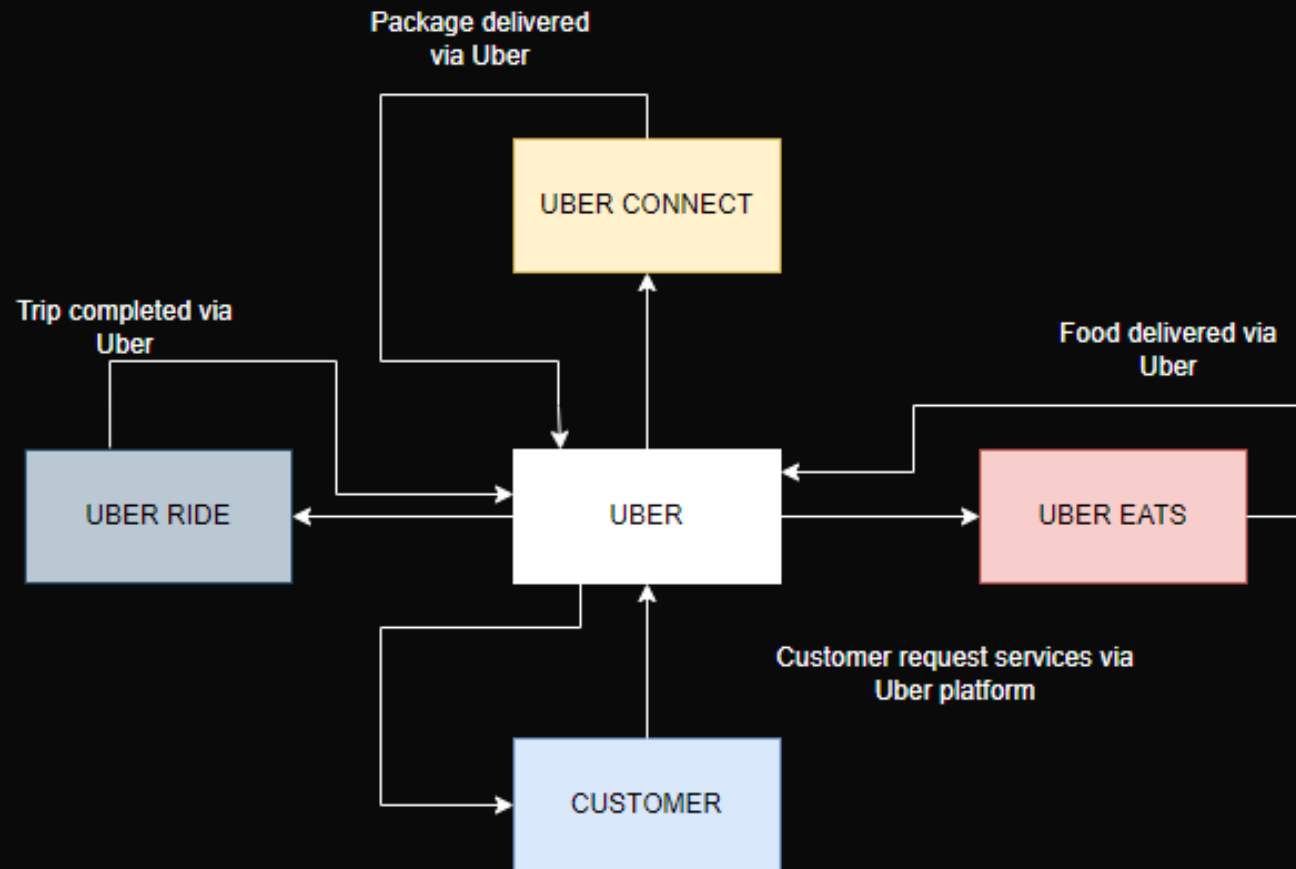


**Device**

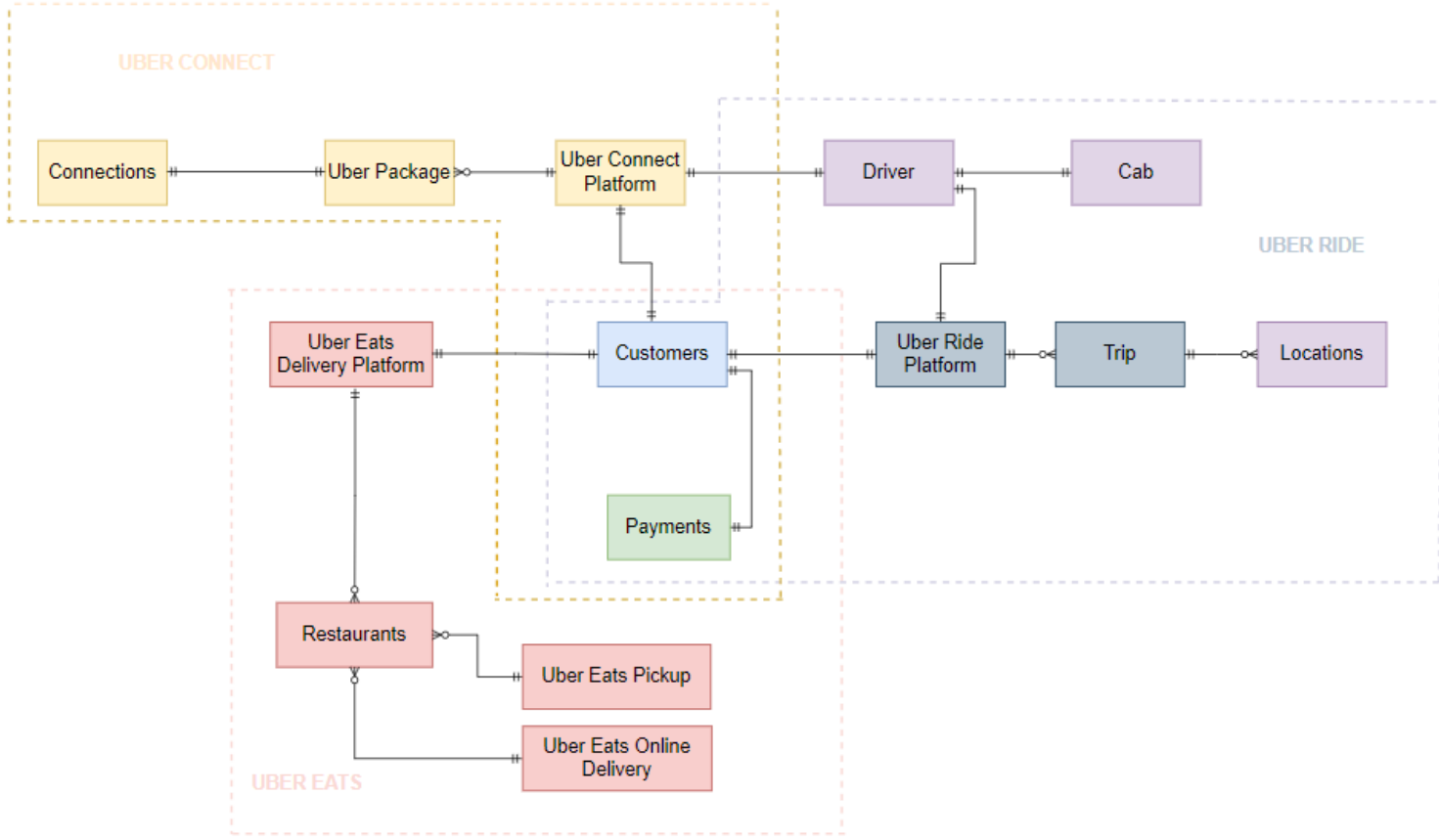




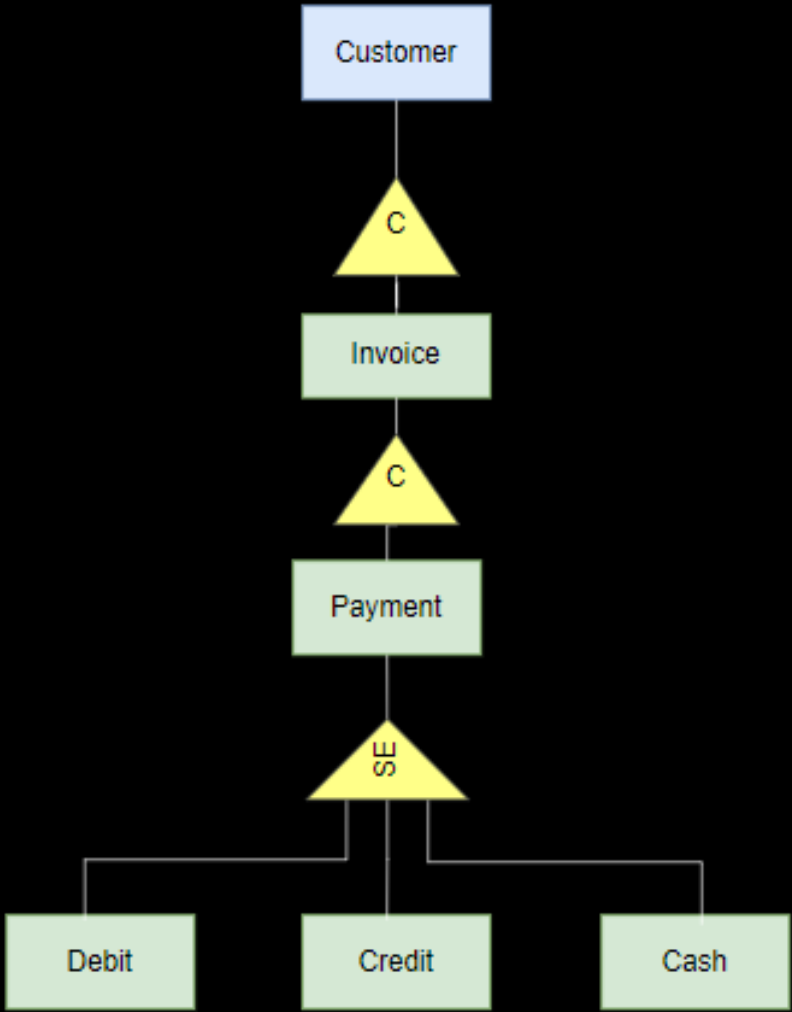
# High-level Workflow



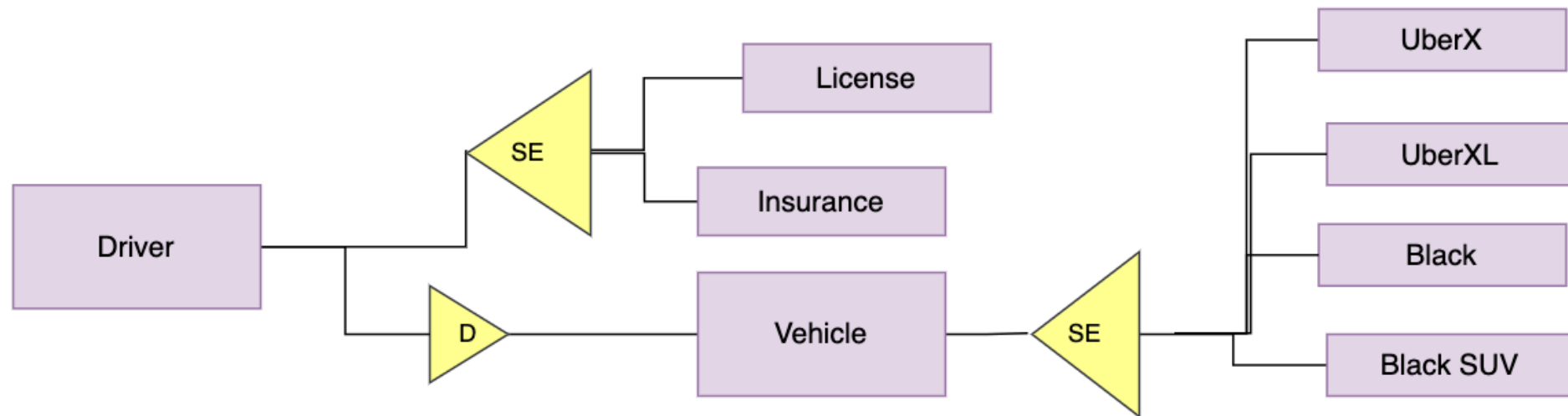
# Consolidated ER diagram -Uber



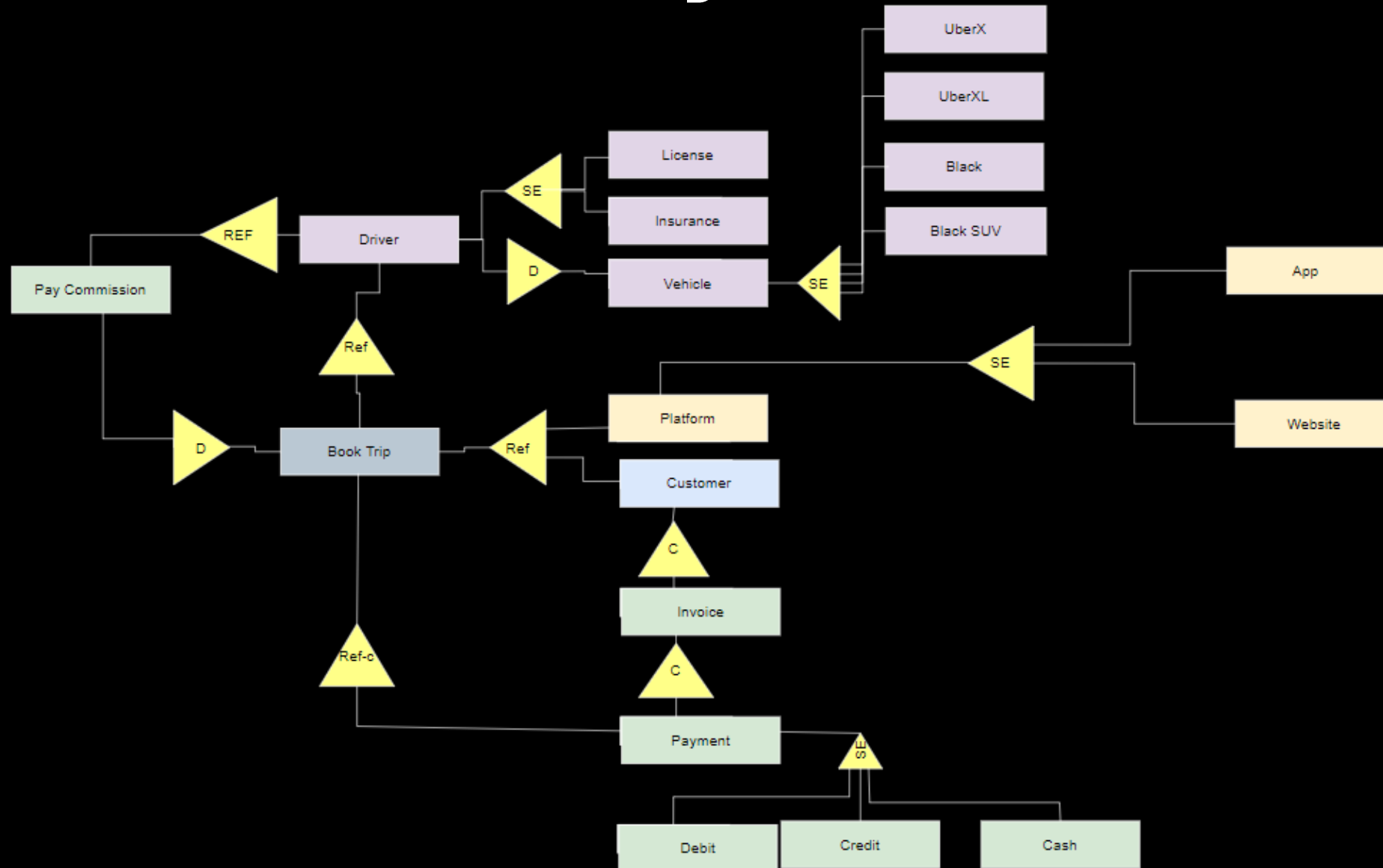
# Customer and Payment entity-Uber Ride



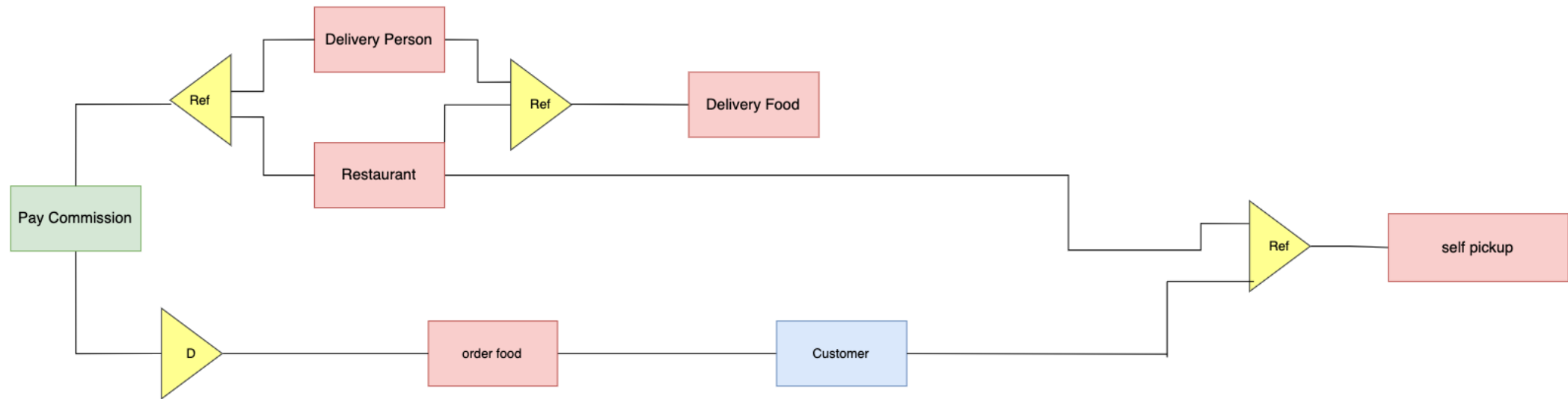
# Driver Entity and their subtypes- Uber Ride



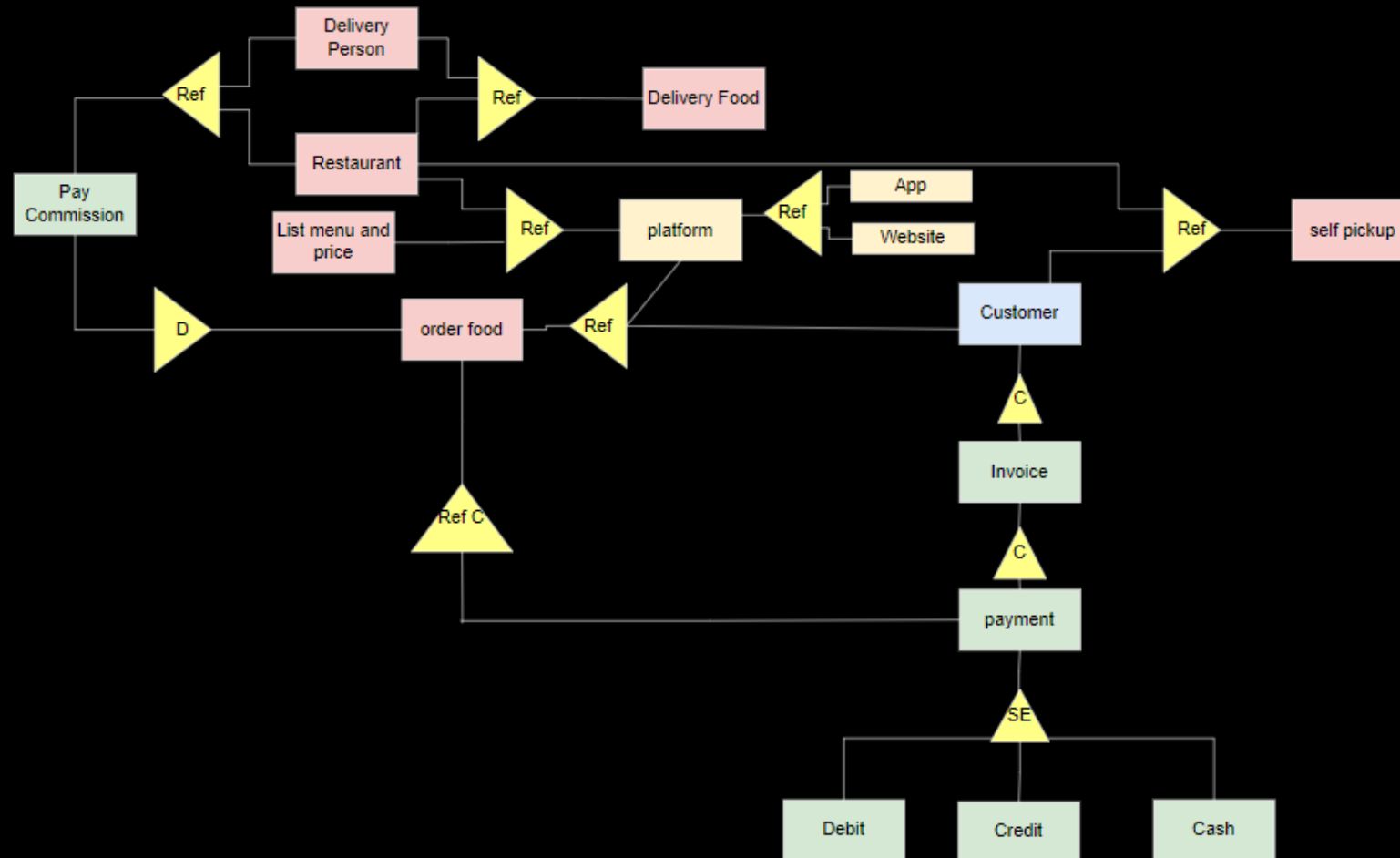
# Information Modeling- Uber Ride



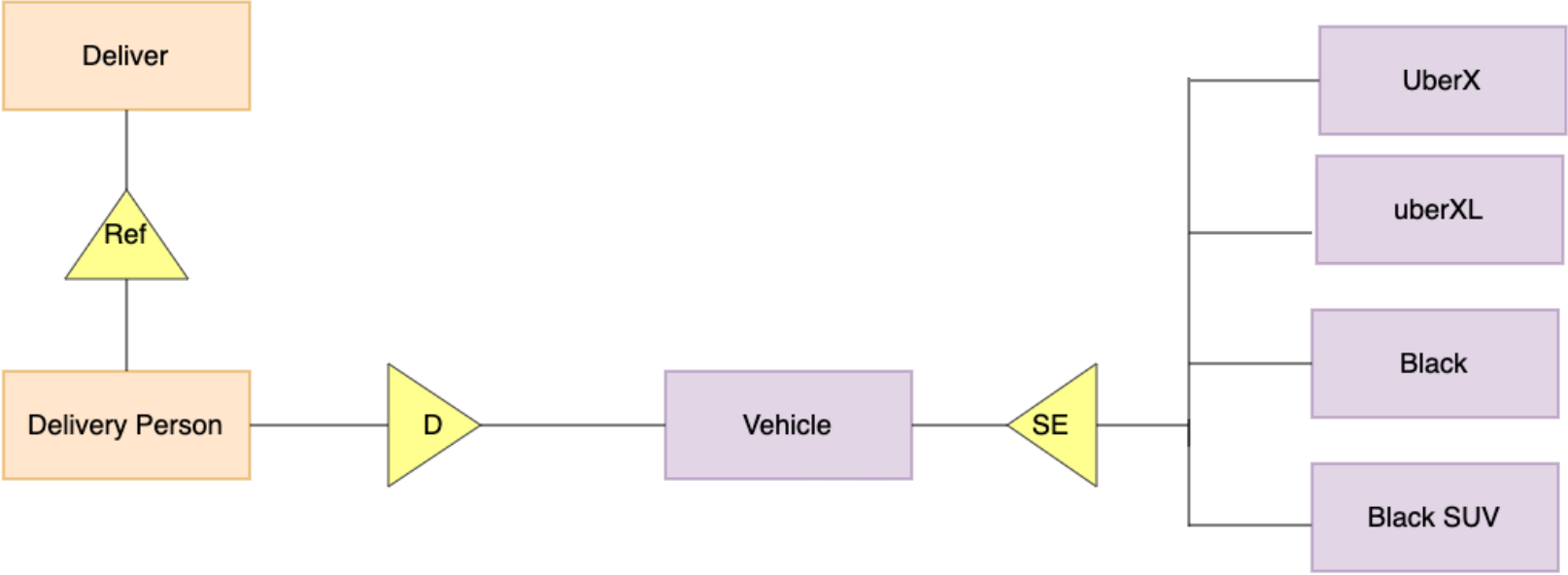
# Restaurant Entity- Uber Eats



# Information modeling - Uber Eats

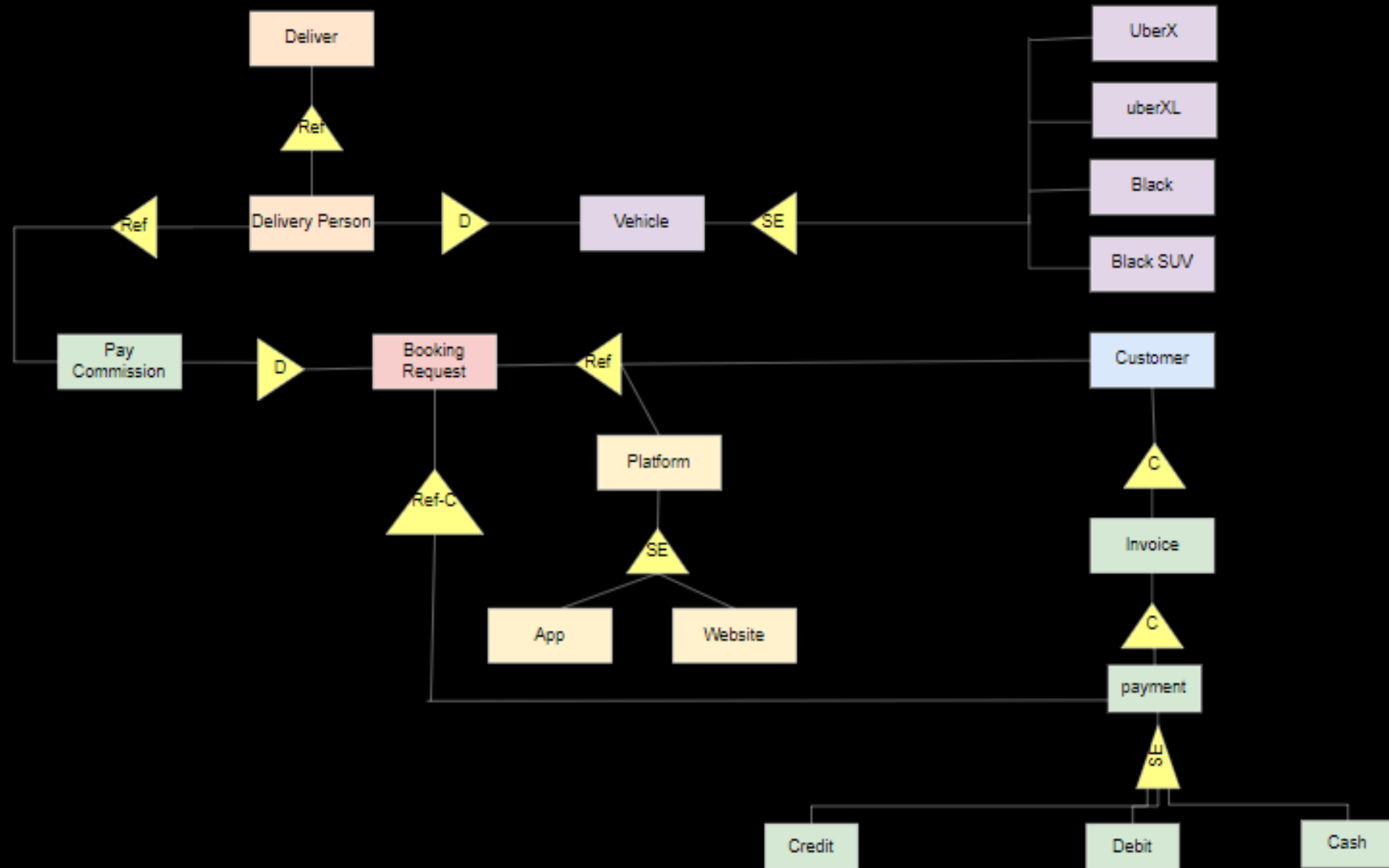


# Delivery Person Entity - Uber Connect

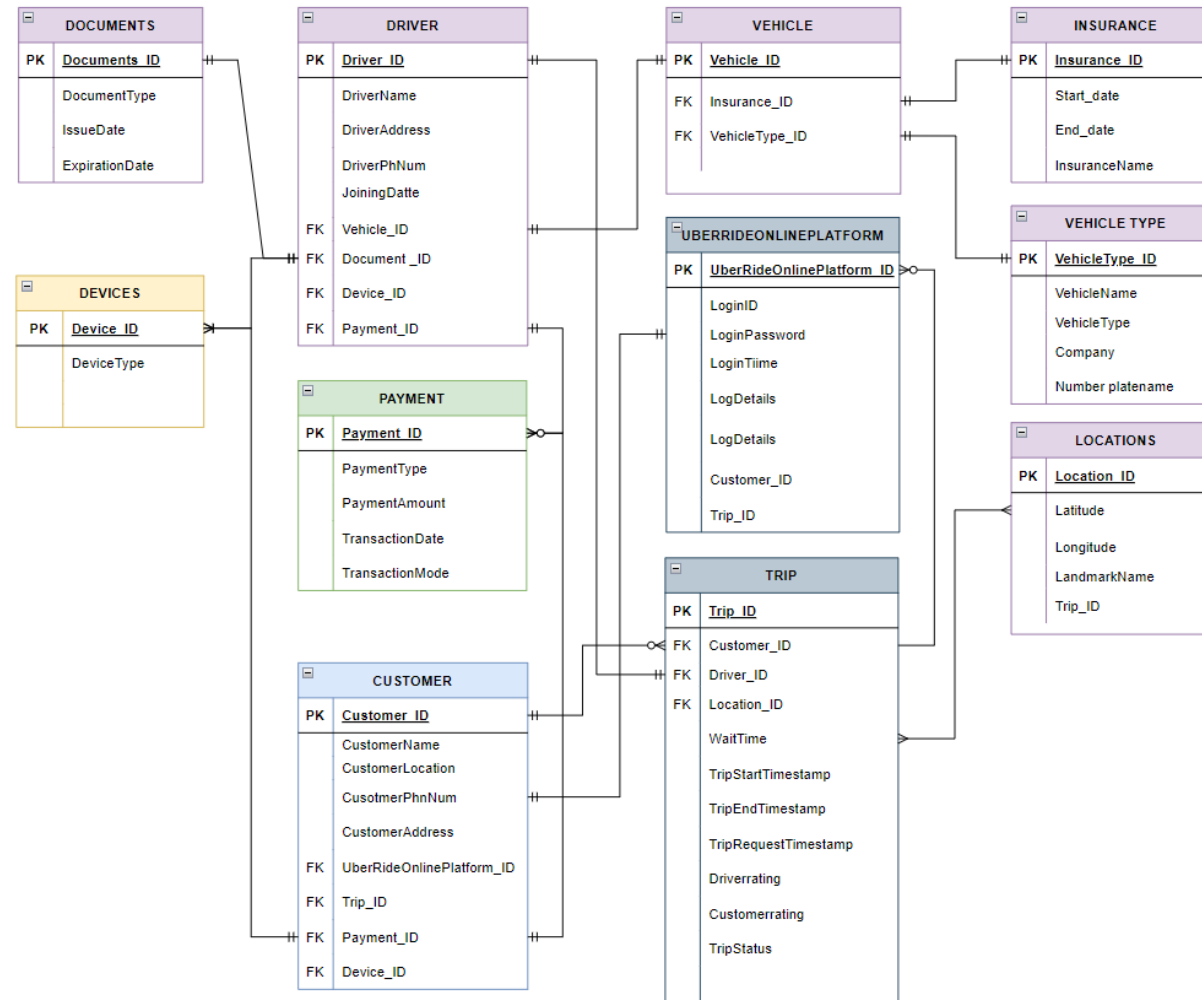




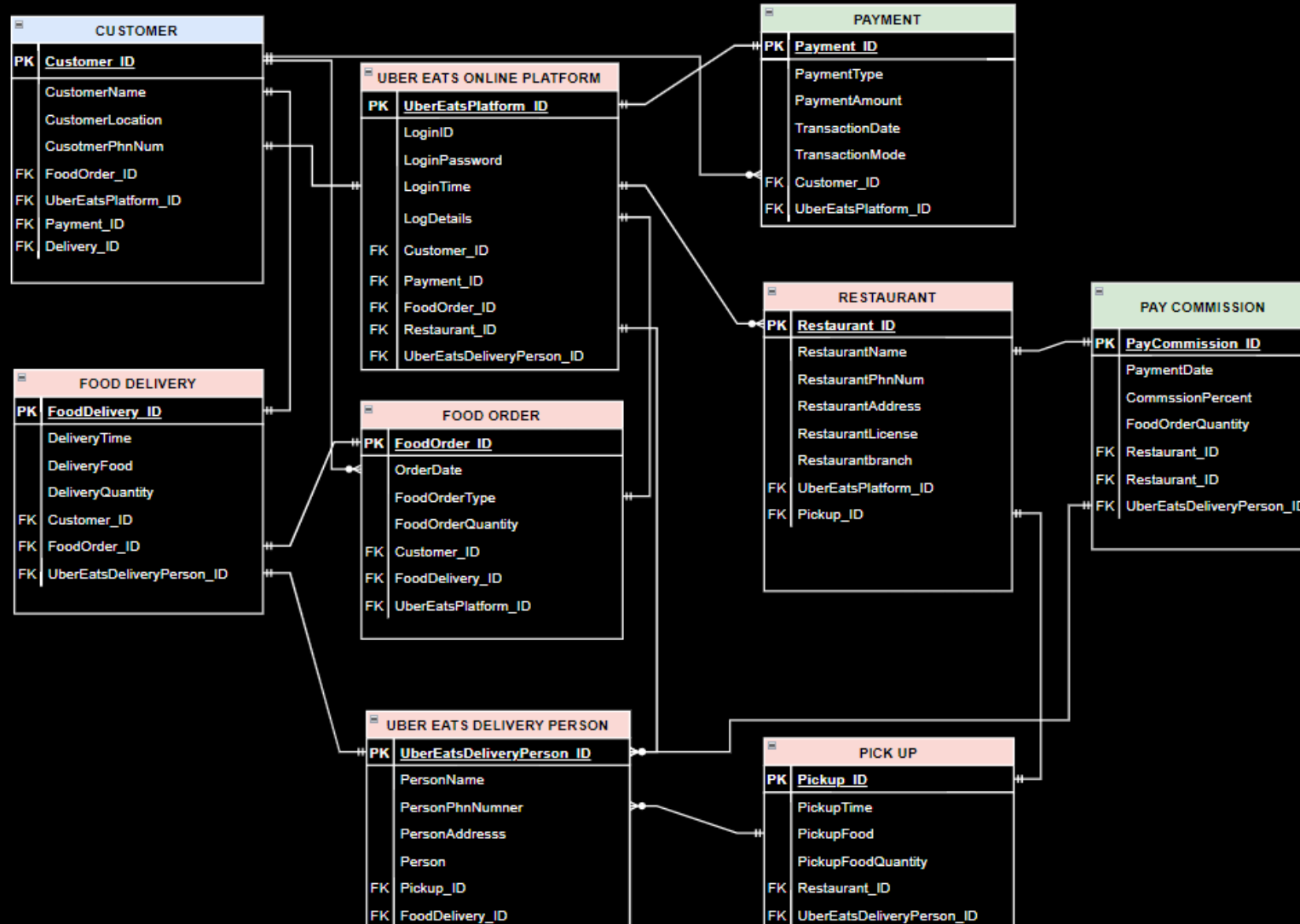
# Information modeling - Uber Connect



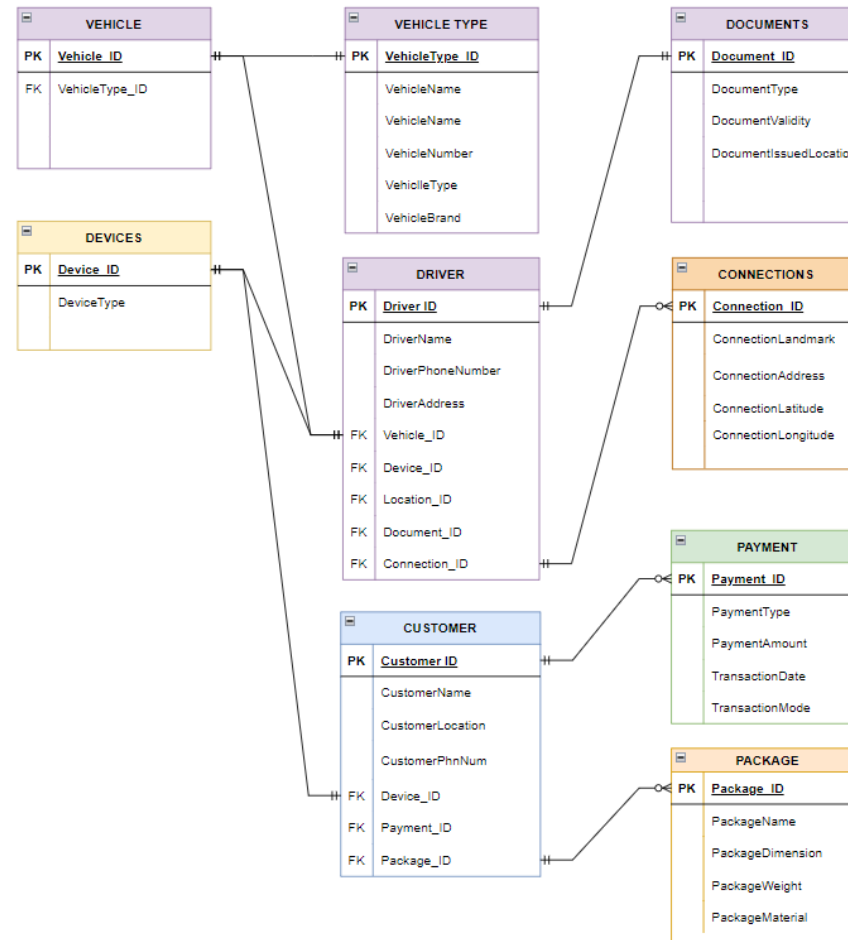
# ER diagram with Attributes – Uber Ride



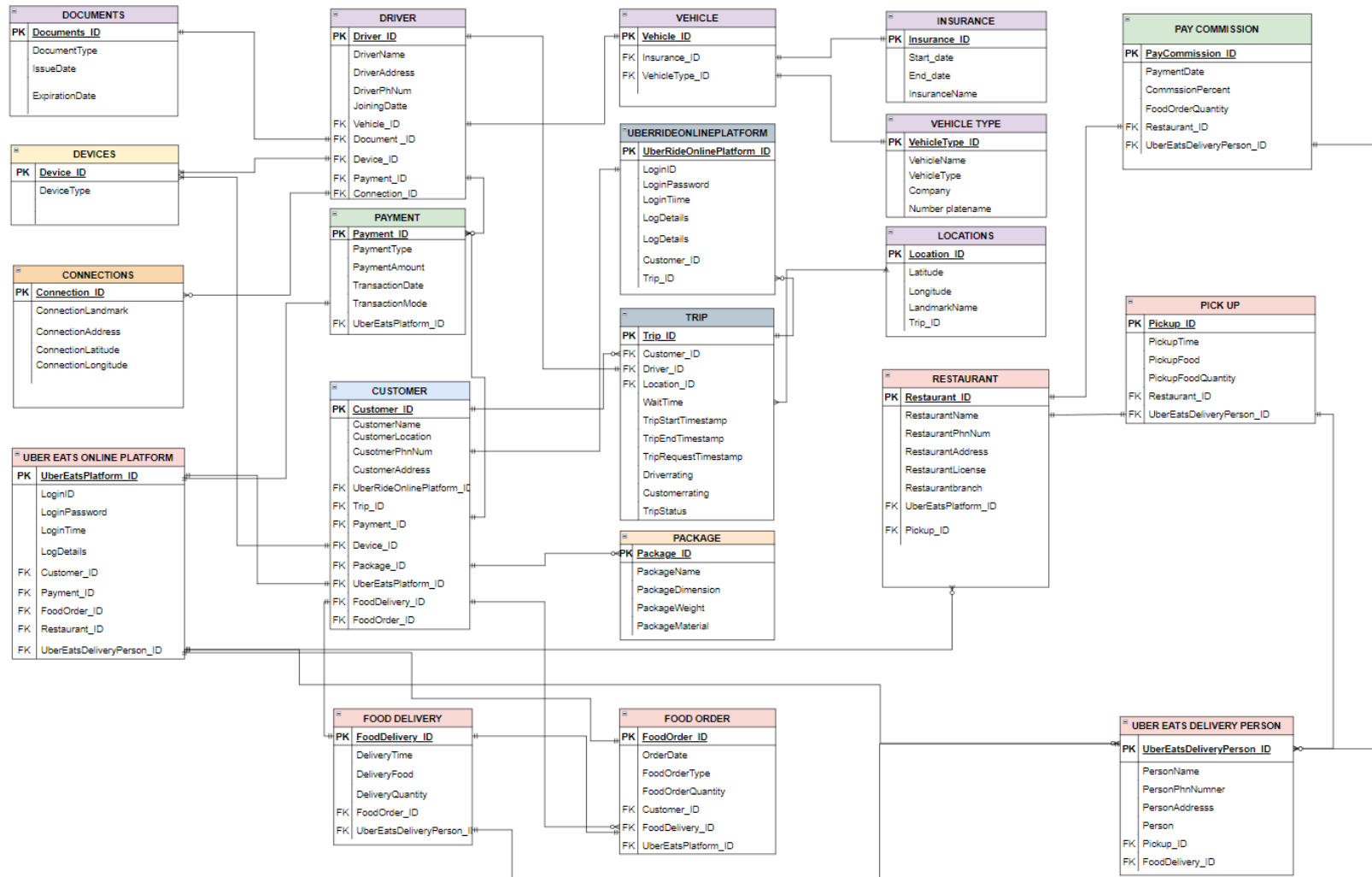
# ER diagram with Attributes – Uber Eats



# ER diagram with Attributes – Uber Connect



# ER diagram with Attributes– Uber



# Contract for Booking an Uber Ride

## Invariant

- Customers should have an uber an account

## Precondition

- The customer and driver exist
- The driver should have vehicle
- The vehicle should have all documents
- The customer should have option to pay

## Postcondition

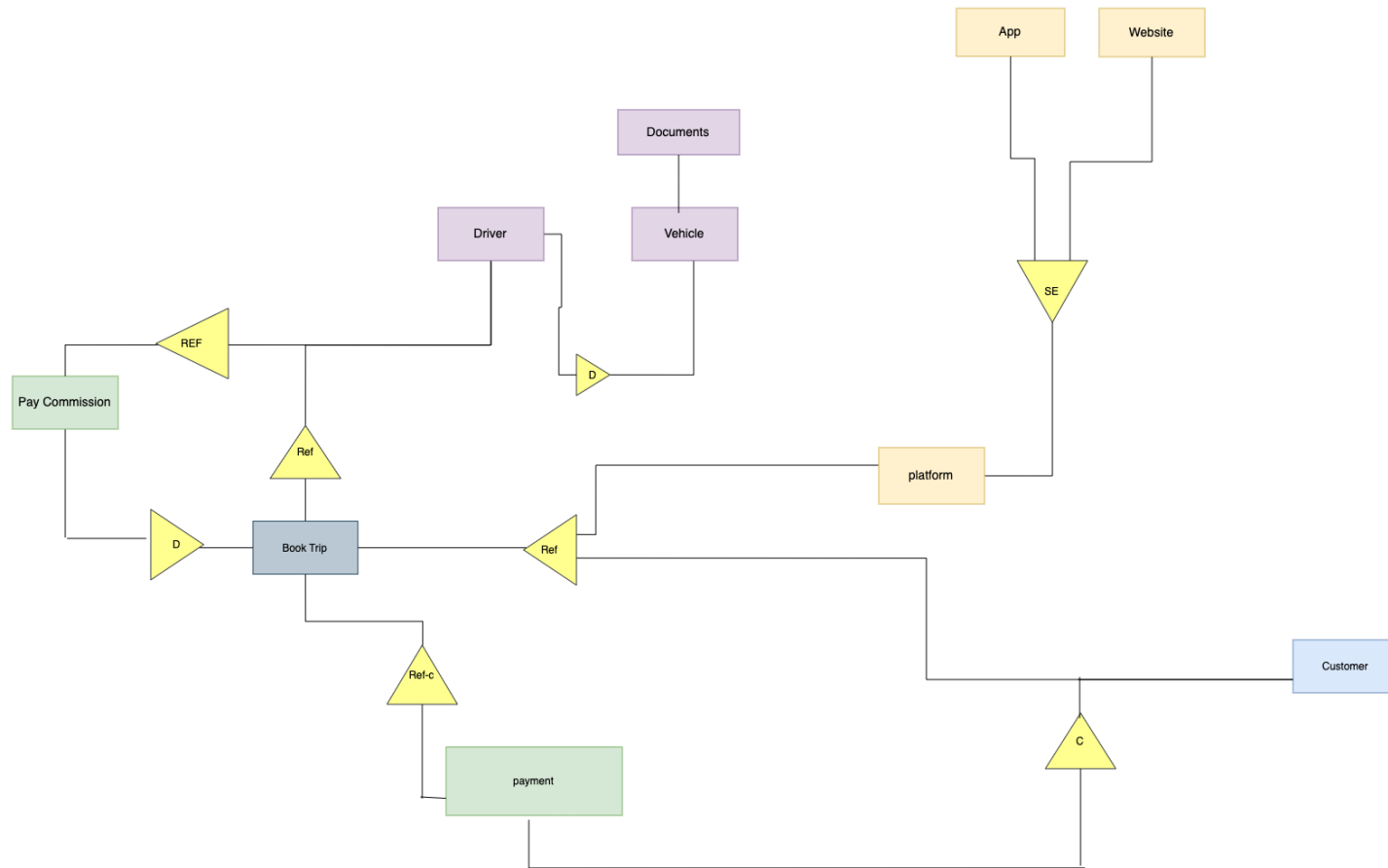
- Customer reaches destination
- Driver gets the money
- Uber get the commission

## Trigger

- Customer needs to commute



# Information modeling for booking a ride



# Contract for Booking Uber Eats

## Invariant

- Customers should have an uber an account

## Precondition

- The customer ,driver and restaurant exist
- The driver should have vehicle
- The vehicle should have all documents
- The customer should have option to pay

## Postcondition

- Customer get food
- Driver and restaurant gets the money
- Uber get the commission

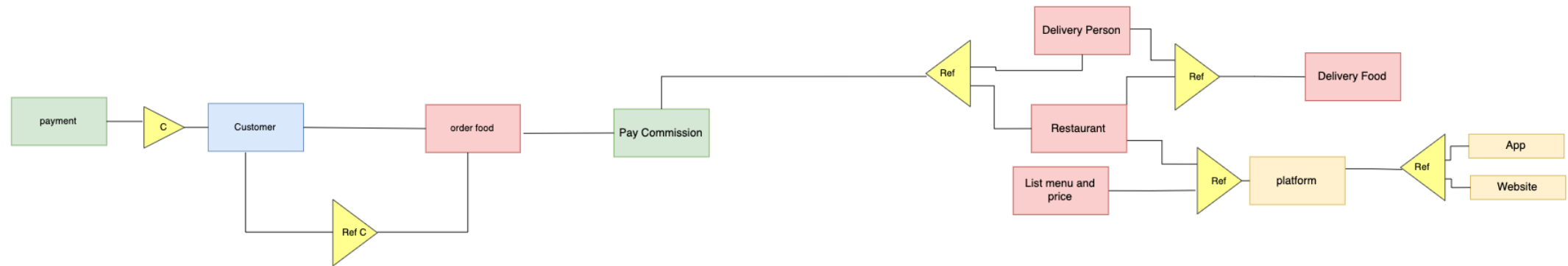
## Trigger

- Customer needs to order food





# Information modeling for ordering food



Thank You

