

## EER → Relations

Driver ( Driver id, DOB, Place of Birth, Name, Gender,  
city, street, state, Pincade )

Driver identification ( Driver id, SSN, Passport number, Driving License number )

Vehicle ( Vehicle Number, Type, Driver ID, Vehicle manufacturer,  
main name, model, year of manufacture )

Customer ( Customer ID, DOB, Gender, Name, Street, city, state,  
pincade )

customer - phone number ( Customer ID, phone number )

student ( Customer\_id, university\_email\_id )

non-student ( customer\_id, personal\_email\_id )

Ride Details ( Ride\_id, Source, Customer ID, Date, Time, Ratings,  
Fare, Driver id, Coupon\_code )

Monthly trip record ( Trips completed, Driver id, Trips recieved, Year, month,  
miles driven, Total fare obtained )

Payment Details ( Trips, payment method, payment\_ID, Ride ID )

coupon-details ( coupon\_code, discount percent )

## Relations of Entities

### Driver

<u>Driver ID</u>	DOB	Place of Birth	Name	Gender	City	Street	State	Pin Code
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Primary Key : Driver ID

Candidate Keys: Driver ID

Functional Dependencies: Driver ID  $\rightarrow$  DOB , Driver ID  $\rightarrow$  Place of Birth ,  
Driver ID  $\rightarrow$  Name , Driver ID  $\rightarrow$  Gender, Driver ID  $\rightarrow$  City ,  
Driver ID  $\rightarrow$  Street , Driver ID  $\rightarrow$  State , Driver ID  $\rightarrow$  Pin Code

### Customer

<u>Customer ID</u>	DOB	Gender	Name	Street	City	State	Pin Code
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Primary Key : Customer ID

Candidate Keys: Customer ID

Functional Dependencies: Customer ID  $\rightarrow$  DOB , Customer ID  $\rightarrow$  Name ,  
Customer ID  $\rightarrow$  Gender, Customer ID  $\rightarrow$  City,  
Customer ID  $\rightarrow$  Street , Customer ID  $\rightarrow$  State ,  
Customer ID  $\rightarrow$  Pin Code

### Customer Phone Number

<u>Customer ID</u>	<u>Phone Number</u>
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Primary Key : Customer ID and Phone Number

Candidate Keys: Customer ID and Phone Number

### Student

<u>Customer ID</u>	University Email - ID
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Primary Key : Customer ID

Candidate Keys: Customer ID

Functional Dependencies: Customer ID  $\rightarrow$  University Email - ID

## **Non-Student**

<u>Customer ID</u>	Personal Email - ID
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Primary Key : Customer ID

Candidate Keys: Customer ID

Functional Dependencies: Customer ID → Personal Email - ID

## **Ride-Details**

<u>Ride ID</u>	Driver ID	Coupon Code	Customer ID	Fare	Source	Date	Time	Rating	Type of Vehicle
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Primary Key : Ride ID

Candidate Keys: Ride ID

Functional Dependencies: Ride ID → Driver ID , Ride ID → Coupon Code ,  
Ride ID → Customer ID, Ride ID → Fare,  
Ride ID → Source , Ride ID → Date ,  
Ride ID → Rating , Ride ID → Type of Vehicle

## **Driver Identification**

<u>Driving License Number</u>	Driver ID	SSN	Passport Number
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Primary Key : Driving License Number

Candidate Keys: Driving License Number , SSN , Passport Number

Functional Dependencies: Driving License Number → Driver ID ,  
Driving License Number → SSN ,  
Driving License Number → Passport Number,

## **Vehicle**

<u>Vehicle Number</u>	Type	Driver ID	Vehicle Manufacturers	Main Name	Model	Year of Manufacture
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Primary Key : Vehicle Number

Candidate Keys: Vehicle Number

Functional Dependencies: Vehicle Number → Driver ID , Vehicle Number → Type ,  
Vehicle Number → Vehicle Manufacturers,  
Vehicle Number → Main Name , Vehicle Number → Model ,  
Vehicle Number → Year of Manufacture

### Coupon Details

<u>Coupon Code</u>	Discount Percentage
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Primary Key : Coupon Code

Candidate Keys: Coupon Code

Functional Dependencies: Coupon Code —> Discount Percentage

### Payment Details

<u>Payment ID</u>	Payment Method	Tips	Ride ID
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Primary Key : Vehicle Number

Candidate Keys: Vehicle Number

Functional Dependencies: Payment ID —> Payment Method ,  
Payment ID —> Tips , Payment ID —> Ride ID

### Monthly Trip Record

<u>Year</u>	<u>Month</u>	Driver ID	Miles Driven	Trips Completed	Trips Received	Total Fare Obtained
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Primary Key : Year and Month

Candidate Keys: Year and Month

Functional Dependencies: {Year, Month} —> Driver ID ,  
{Year, Month} —> Miles Driven ,  
{Year, Month} —> Trips Completed ,  
{Year, Month} —> Trips Received ,  
{Year, Month} —> Total Fare Obtained

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Team Details:

Team Number: 6

Team Members:

1. Venkatesha Prasad Sridar
2. Mrinal Sunil
3. Hanish Konduru Balakrishna