ER Diagram

# Team

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Diagram

Description automatically generated

# Explaining The Business Rules.

* UsedCarsStagingData: This table contains the raw data of used cars listings scraped from various websites. It has columns for various attributes of a car such as price, year, make, model, condition, fuel type, odometer reading, and so on.
* UsedCarsMasterData: This table contains the cleaned and transformed data from the UsedCarsStagingData table. It has columns for the same attributes as the previous table, along with additional columns for latitude, longitude, and posted date. The primary key of this table is the MasterID column, which is an auto-incremented integer.
* CarsMasterData: This table contains information about individual cars, such as their make, model, year, transmission type, and so on. The primary key of this table is the CarID column, which is an auto-incremented integer. The MasterID column is a foreign key that references the UsedCarsMasterData table.
* CarDetails: This table contains additional details about each car, such as its condition, odometer reading, status, image URL, and description. The primary key of this table is the CarDetailsID column, which is an auto-incremented integer. The CarID column is a foreign key that references the CarsMasterData table.
* Locations: This table contains information about the locations of the cars listed for sale, such as the city, state code, latitude, and longitude. The primary key of this table is the LocationID column, which is an auto-incremented integer. The MasterID column is a foreign key that references the UsedCarsMasterData table.
* CarListings: This table contains information about each car listing, such as its price, posted date, and listing URL. The primary key of this table is the ListingID column, which is an auto-incremented integer. The CarID and LocationID columns are foreign keys that reference the CarsMasterData and Locations tables, respectively. The MasterID column is a foreign key that references the UsedCarsMasterData table.

**Table 1: CarsMasterData**

·       CarID (Primary Key)

·       MasterID (Foreign Key from UsedCarsMasterData)

·       Manufacturer

·       ModelYear

·       CylinderCount

·       FuelType

·       TransmissionType

·       CarModel

·       CarSize

·       CarBodyType

·       CarColor

·       VehicleIdentificationNum

·       DriveType

**Table 2: CarDetails**

·       CarDetailsID (Primary Key)

·       CarID (Foreign Key from CarsMasterData table)

·       OdometerReading

·       CarStatus

·       CarCondition

·       ImageURL

·       CarDescription

**Table 3: Locations**

·       LocationID (Primary Key)

·       MasterID (Foreign Key from UsedCarsMasterData)

·       City

·       CraigsCityURL

·       StateCode

·       Latitude

·       Longitude

**Table 4: CarListings**

·       MasterID (Foreign Key from UsedCarsMasterData)

·       ListingID (Primary Key)

·       CarID (Foreign Key from Cars table)

·       LocationID (Foreign Key from Location table)

·       Price

·       PostedDate

·       ListingURL