**Company**

This table will contain data on companies that produce cars. The company entity will have an attribute for the company’s name – companyName, the country of origin for the company’s headquarters – country, and the company’s stock ticker – ticker. The primary key is companyName. There are no foreign keys in this table. This table will be related to the Make table through a foreign key companyName in the Make table.

**Make**

This table will contain data on makes of automobiles offered by companies that produce cars. The make entity will have an attribute for the name of the make – makeName. The makeName will be the primary key for this table. The only other attribute in this table will be the companyName which will be a foreign key linking to the Company table because a make corresponds to an automotive company.

**Model**

This table will contain data on models of automobiles. The attributes in this table will be the name of the model – modelName and the make corresponding to that model – makeName. The modelName attribute will be the primary key for this table and the makeName attribute will be a foreign key linking this table to the Make table because a model corresponds to a make.

**Car**

The car table will store data on cars. These cars will correspond to a make and model offered by a company. The attributes in this table will be the id of the car – carID, the name of the model of the car – modelName, the engine in the car – engineID, the transmission of the car – transmissionID, the trim – trim, the number of seats – seats, and the drivetrain type – drivetrain. The primary key will be carID. There will be a foreign key modelName linking this table to the Model table because cars will have a model and transitively a make and company. There will be a foreign key engineID linking this table to the Engine table because a car must have an engine\*. There will be a foreign key transmissionID linking this table to the Transmission table because a car must have a transmission\*.

* As it stands, this data model doesn’t support electric cars as well, it could be revised in the future

**Engine**

This table will contain data on car engines. The attributes included in this table are engineID, displacement, cylinders\*, arrangement, aspiration, and fuel. The primary key will be engineID. There will be no foreign keys in this table. The engineID will be used as a foreign key in the Car table.

* As it stands the data model doesn’t deal with engines other than piston internal combustion engines

**Transmission**

The transmission table will contain data on car transmissions. The attributes in this table will be transmissionID, type, and gears. The primary key in the table will be transmissionID which will be used by the Car table as a foreign key. There are no foreign keys in this table.

****