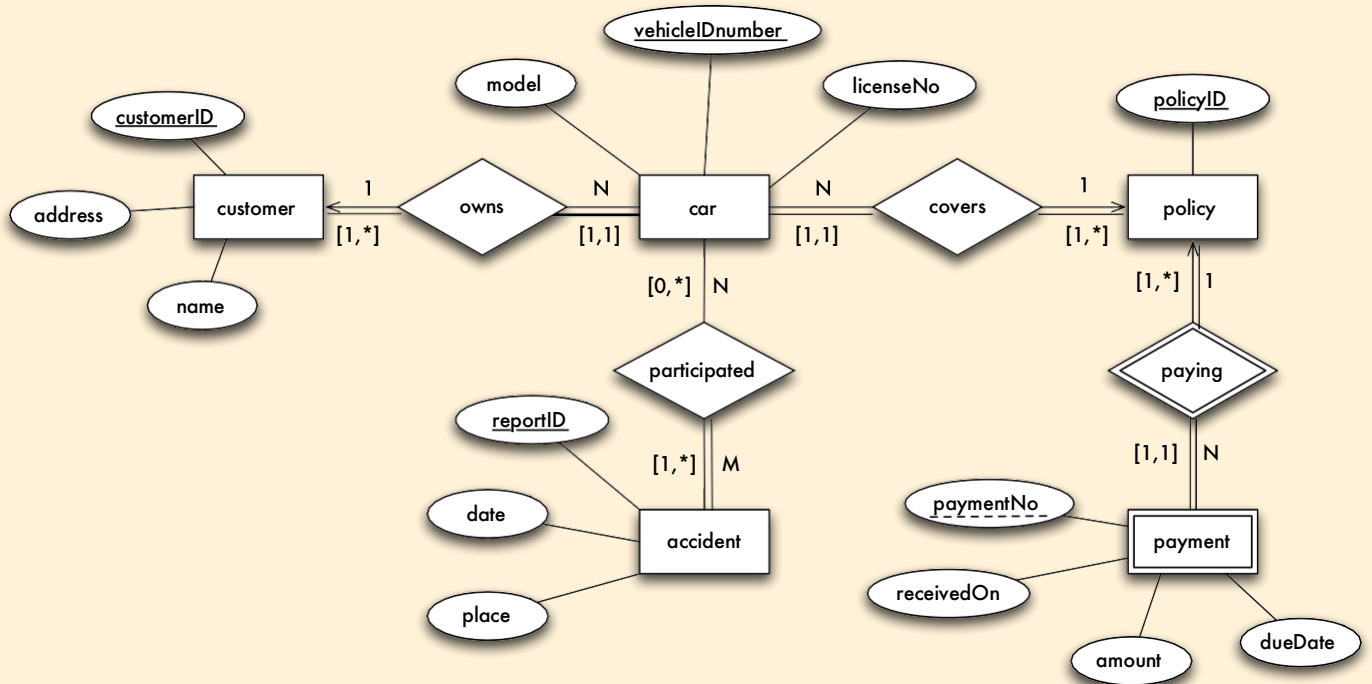1. Review the slides about the 7-step mapping an ER diagram to relational tables.

2. Consider the ER diagram for a car insurance company whose customers own one or more cars each. Each car has associated with it zero or more recorded accidents. Each insurance policy covers one or more cars, it has one or more payments associated with it. Each payment is for a particular period of time, it has an associated due date and the date when the payment was received. In general, include two or three attributes for each entity type.

Please create an appropriate set of relations for the ER diagram. Attribute domains can be ignored. Only a few null values are expected, so avoid extra relations if an alternative solution with fewer relations is possible. Please indicate primary and foreign keys. The relations should be minimal, do not add additional attributes.

Answer

customer(*customerID*, *address*, *name*)
car(*vehiclelDnumber*, *model*, *licenseNo*, *customerID-->customer*, *policyID-->policy*)
policy(*policyID*)
payment(*policyID-->policy*, *paymentNo*, *receivedOn*, *amount*, *dueDate*)
accident(*reportID*, *date*, *place*)
participated(*vehicleIDnumber-->car*, *reportID-->accident*)