

**Q2. State any constraints which can NOT be captured by the E-R model.**

Since it's a kind of open question (There can be more than one solution.)

one answer can be:

The number of cars/ customers in the databases.

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**Q3. Translate your E-R diagram into relational tables. For each relation, identify the primary key, any foreign keys, and the necessary constraints.**

Bold: foreign key

Underline: primary key

Solution:

Shop (ShopID, Name, Address, PhoneNumber, **MechanicsID**)

Mechanics (MechanicsID, FirstName, LastName, Address, Email, PhoneNumber, Birthdate, Speciality)

Customer (CustomerID, FirstName, LastName, Address, Email, PhoneNumber)

Cars (VIN, Make, Model, Color, ManufacturedYear, **CustomerID**)

Services (**MechanicsID**, services\_id, **VIN**, Description, Parts, Date, Time, Cost)