Assignment 3

ERD

Q1.

Basic ERD:

Diagram, schematic

Description automatically generated

Extended ER:

Diagram

Description automatically generated

Attributes:

Mechanic – mechanicID, name of mechanic, address, payrate per hour

Car – license number, moment it is in, moment it is out, name of mechanic

Problem – problemID, description of problem, hours taken to fix, payrate per hour

Part – partID, description of part, quantity in stock

Assumptions:

* There must be at least one car to fix in the repair shop
* Each car must have at least one problem, which is why it is in the repair shop
* There exist multiple types of problems for cars

Q2.

The ER & EER diagram will need to be changed as follows, as it is not suitable for the new situation:

ER:

Diagram, schematic

Description automatically generated

Extended ER:

Diagram

Description automatically generated