Compulsory Task 1

•What is normalisation?

Normalization is a process for evaluating and correcting table structures to minimize data redundancies and reduce the likelihood of data anomalies. Normalization is a method to remove anomalies and bring the database to a consistent state.

Normalization works through a series of stages called normal forms.

•When is a table in 1NF?

A table is in 1NF when:

- 1. All of the key attributes are defined.
- 2. There are no repeating groups in the table.
- 3. All attributes are dependent on the primary key.

•When is a table in 2NF?

Atableisin2NFwhen:

- 1. It is in 1NF
- 2. It includes no partial dependencies; no attribute depends on only a portion of the primary key.
- •When is a table in 3NF?

A table is said to be in 3NFwhen:

- 1. It is in 2NF
- 2. It contains no transitive dependencies.
- •Using the INVOICE table given below, draw its dependency diagram and identify all dependencies (including transitive and partial dependencies



