Task

# Draw dependency diagram and identify all dependencies

A diagram of a process

Description automatically generated

# Remove all partial dependencies and draw dependency diagrams of new table structures

A diagram of a company

Description automatically generated

# Remove transitive dependencies in all tables and draw dependency diagrams of all tables

A diagram of a product

Description automatically generated

# Check each table if they satisfy conditions for 1NF, 2NF, 3NF and justify why they do or do not satisfy.

1NF:

1. There are no repeating groups;
2. Each record must be unique
3. It has a PK

2NF:

1. It is in 1NF
2. There is no partial dependency

3NF:

1. It is in 2NF
2. There is no transitive dependency

|  |  |  |  |
| --- | --- | --- | --- |
|  | INVOICE | PRODUCT | VEND |
| 1NF | ☑ | ☑ | ☑ |
| 2NF | ☑ | ☑ | ☑ |
| 3NF | ☑ | ☑ | ☑ |

# Draw a complete Entity Relationship Diagram (ERD) of the database.

A diagram of a product

Description automatically generated