

COMP3700 Activity 4

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1. Identify entities

- Customers
 - name
 - ID
 - email
 - payment method
 - purchase history
- Products
 - product ID
 - price
 - inventory count
 - transaction history
- Employees
 - employee ID
 - wage
 - schedule
 - rank or privilege level
 - name
- Suppliers
 - supplier ID
 - name
 - products available
 - price of products

2. Identify relationships

- Customers \longrightarrow name (one-to-one)
- Customers \longrightarrow customer ID (one-to-one)
- Customers \longrightarrow email (one-to-one)
- Customers \longrightarrow payment method (one-to-many)
- Customers \longrightarrow purchase history (one-to-many) (technically one-to-list)
- Customers \longleftrightarrow Products (many-to-many)
- Products \longrightarrow product ID (one-to-one)
- Products \longrightarrow price (one-to-one)
- Products \longrightarrow quantity (one-to-one)
- Products \longrightarrow transaction history
- Products \longleftrightarrow Suppliers (many-to-many)
- Suppliers \longrightarrow prices (one-to-many)
- Suppliers \longrightarrow supplier ID (one-to-one)
- Suppliers \longrightarrow name (one-to-one)
- Suppliers \longleftrightarrow Employees (management)
- Employees \longrightarrow employee ID (one-to-one)
- Employees \longrightarrow wage (one-to-one)
- Employees \longrightarrow schedule (one-to-one)
- Employees \longrightarrow rank (one-to-one)
- Employees \longrightarrow name (one-to-one)

3. Draw entity-relationship diagram

