University of Engineering and Technology, Peshawar

Department of Computer Systems Engineering.

Course : CSE-403 Database Management System Spring-22

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PROJECT:

PHARMACY MANAGEMENT SYSTEM

1. Entity Description
2. Detailed Business Rules
3. Entity Relationship Diagram (ERD)
4. Enhanced Entity Relationship Diagram (EERD)

ENTITY DESCRIPTION:

PHARMACY:

A store that sells medicines and different medical products to customers.

EMPLOYEE:

The workers that work in the pharmacy.

CUSTOMER:

A person or organization which has ordered or might order products from a store. (medicines, drugs, etc).

PRODUCT:

Medicines that pharmacy company sells to customers.

ORDER:

Products that the customer has requested to buy will be considered as orders.

SUPPLIER:

Another company that may provide medical products to a pharmacy store.

SHIPMENT:

The transaction that is associated with the item received by the pharmacy store from suppliers.

BILL:

A dedicated amount that is paid by the customer on behalf of products purchased.

REPORT:

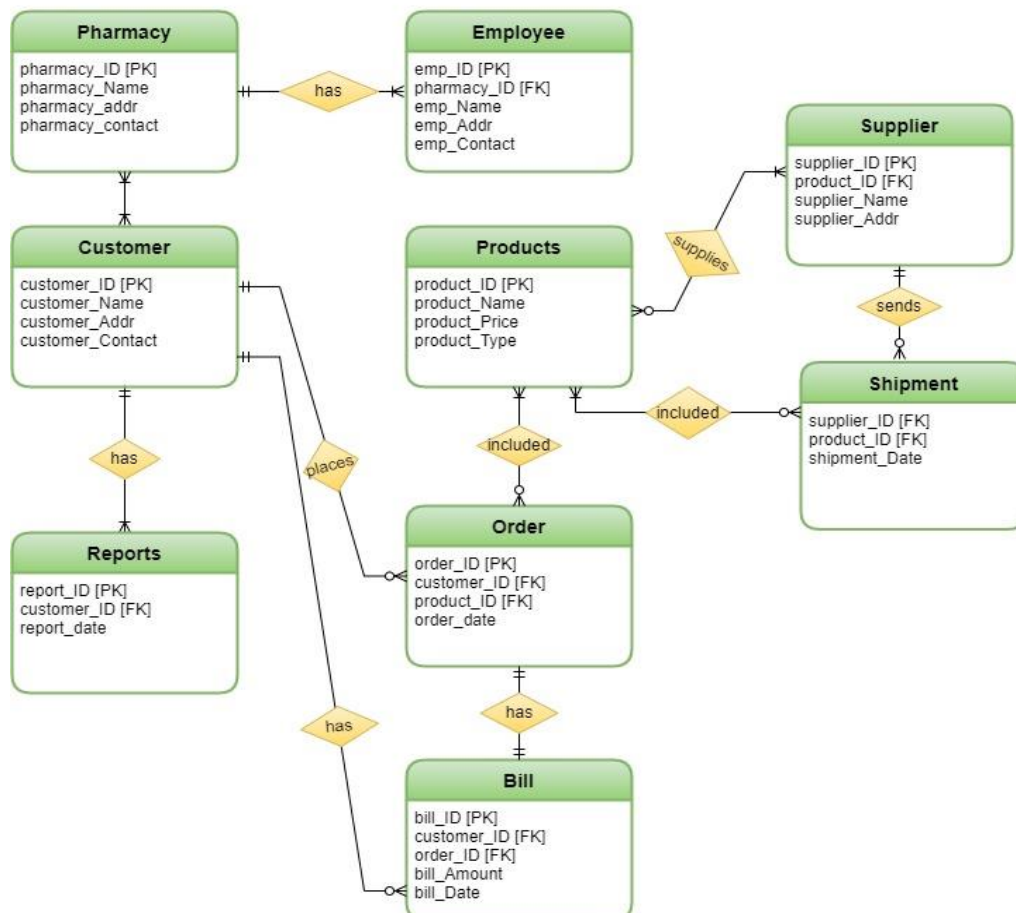History that contains information about the customers.

BUSINESS RULES:

- A pharmacy may have one or more employees and a particular employee works in exactly one pharmacy.
- A customer may submit many orders or no order at all. Similarly, each order is submitted by exactly one customer.

- Each order contains one or more products. Each product may be a part of many orders or not a part of any order at all.
- A supplier may send many shipments or no shipment at all. Similarly, each shipment must be sent by only one supplier.
- A supplier may supply many products or no product at all. Each item is supplied by at least one supplier or any number of suppliers.
- A product may be included in many shipments. Similarly, each shipment must include one or more products.
- A customer may have any number of bills. Each bill is associated with exactly one customer.
- An order must have exactly one bill. Each bill is associated with only one order.
- A customer may have many reports. Each report belongs to exactly one customer.

ERD:

Pharmacy Management System ERD

EERD:

EERD