**Pharmacy Drugs Inventory Management**

**Milestone: Logical Model**

**Group 11**

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**Percentage of Effort Contributed by Student1: 50%**

**Percentage of Effort Contributed by Student2: 50%**

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**Signature of Student 2: Meenal**

**Submission Date: October 22, 2022**

**Logical Model:**

**Primary Key: Underlined with blue color**

**Foreign Key: Dotted lines with green color**

**Entity -1:**

**orders 🡪 (order\_id, pharmacy\_id, shipment\_id, order\_date, payment\_type, total\_amount)**

**Description:**

**order\_id** 🡪 Primary Key

**pharmacy\_id, shipment\_id** 🡪 Foreign Key

Orders entity contains whole information of a single order which is linked with pharmacy.

**pharmacy\_id** 🡪 It is a foreign key in orders table, and it is a primary key in the drugs table, we join these tables with the drug\_id as a reference.

Shipment\_id 🡪 It is a foreign key in orders table, and it is a primary key in the shipment table, we join these tables with the shipment\_id as a reference.

**Entity-2:**

**order\_details 🡪 (order\_id, drug\_id, quantiy)**

**Description:**

**order\_id + drug\_id** 🡪 Primary Key

**order\_id, drug\_id** 🡪 Foreign Key

Order details entity contains the information of which drugs has ordered by pharmacy\_id, and the total amount and payment type data in this table.

**order\_id** 🡪 It is a foreign key in the orders details table and a primary key in the orders table which gives us a relation between both these tables.

drug\_id 🡪 It is a foreign key in the order details table and a primary key in the pharmacy table

**Entity-3:**

**stock\_details 🡪 (stock\_id, drug\_id, stock\_left, last\_ordered\_date, last\_updated\_date, warehouse\_id, mfg\_date, exp\_date)**

**Description:**

stock\_id 🡪 Primary Key

drug\_id, warehouse\_id 🡪 Foreign Key

Stocks entity contains all the stock information of all the pharmacies with respect to each drug, and maintains the minimum stocks in each pharmacy store.

drug\_id 🡪 It is a foreign key in stock\_details table, and it is a primary key in the drugs table, we join these tables with the drug\_id as a reference

warehouse\_id 🡪 It is a foreign key in stock\_details table, and it is a primary key in the warehouse table, we join these tables with the warehouse\_id as a reference

**Entity-4:**

**shipment\_details 🡪 (shipment\_id, warehouse\_id, shipment\_start\_date, order\_id, shipment\_end\_date)**

**Description:**

**shipment\_id** 🡪 Primary Key

**warehouse\_id, order\_id** 🡪 Foreign Key

Shipment entity contains all the shipment information like start and end date.

order\_id 🡪 It is a foreign key in the shipment table and a primary key in the orders table which gives us a relation between both these tables.

warehouse\_id 🡪 It is a foreign key in the shipment table and a primary key in the warehouse table which gives us a relation between both these tables.

**Entity-5:**

**suppliers 🡪 (supplier\_id, company\_name, phone\_no, address)**

**Description:**

supplier\_id 🡪 Primary Key

Here suppliers are a master tables which holds the information about all the suppliers

**Entity-6:**

**drugs 🡪 (drug\_id, drug\_name, manufacturer, mrp\_price, supplier\_id)**

**Description:**

drug\_id 🡪 Primary Key

supplier\_id 🡪 Foreign Key

Drugs entity contains all the information of the different drugs and stores the main info of it. It also has supplier\_id in this table, by this we can know which supplier has supplied that drug.

supplier\_id 🡪 It is a foreign key in the drugs table and a primary key in the supplier table which gives us a relation between both these tables. It refers to the which supplier is supplying which drugs

**Entity-7:**

**warehouse\_details 🡪 (warehouse\_id, warehouse\_name, address, zipcode)**

**Description:**

warehouse\_id 🡪 Primary Key

Warehouse entity contains all the details of the warehouse information like address, location and zipcode.

**Entity-8:**

**pharmacy 🡪 (pharmacy\_id, pharmacy\_name, address, phone\_no)**

pharmacy\_id 🡪 Primary Key

Pharmacy entity contains all the details of the pharmacies with their respective address and zipcode.