Table Structure –

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| 1. Customer Table |
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| | Column  Name | Data Type | Constraints | Description | | --- | --- | --- | --- | | id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the customer | | name | VARCHAR(50) | NOT NULL, UNIQUE | Customer name for login. | | password | VARCHAR(255) | NOT NULL | Password (hashed). | | email | VARCHAR(100) | NOT NULL, UNIQUE | Customer's email address. | | address | VARCHAR(255) |  | Customer's physical address. | | phone | VARCHAR(15) |  | Customer's contact number. | |

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| **2. Products Table** |
| | Column  Name | Data Type | Constraints | Description | | --- | --- | --- | --- | | product\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the product. | | name | VARCHAR(100) | NOT NULL | Name of the product. | | description | TEXT |  | Description of the product. | | price | DECIMAL(10,2) | NOT NULL | Price of the product. | | is\_available | BOOLEAN | DEFAULT TRUE | Whether the product is active or not. | |

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| **3. Subscriptions Table** |
| | Column Name | Data Type | Constraints | Description | | --- | --- | --- | --- | | id | INT | PRIMARY KEY,  AUTO\_INCREMENT | Unique identifier for the subscription. | | frequency | Varchar(50) | NOT NULL | Type of subscription. | | start\_date | DATE | NOT NULL | Subscription start date. | | end\_date | DATE |  | Subscription end date. | | isActive | TINY INT | NOT NULL | Current status of the subscription. | | customer\_id | INT | FOREIGN KEY REFERENCES Users(user\_id) | Customer who owns the subscription. | | product\_id | INT | FOREIGN KEY REFERENCES Products(product\_id) | Product associated with the subscription. | |

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| 4. **Orders Table** |
| | Column Name | Data Type | Constraints | Description | | --- | --- | --- | --- | | order\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the order. | | order\_date | DATE | NOT NULL | Date when the order was placed. | | delivery\_date | DATE | NOT NULL | Date when the order is to be delivered. | | status | ENUM('PENDING', 'DELIVERED', 'CANCELLED') | DEFAULT 'PENDING' | Current status of the order. | | customer\_id | INT | FOREIGN KEY REFERENCES Users(user\_id) | Customer who placed the order. | | product\_id | INT | FOREIGN KEY REFERENCES Products(product\_id) | Product being ordered. | |

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| **5.Admin Table** |
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### Relationships Between Tables

1. Users to Subscriptions: One-to-Many (A user can have multiple subscriptions).
2. Users to Orders: One-to-Many (A user can place multiple orders).
3. Products to Subscriptions: One-to-Many (A product can be part of multiple subscriptions).
4. Products to Orders: One-to-Many (A product can be part of multiple orders).
5. Products to SubscriptionOptions: One-to-Many (A product can have multiple subscription options).

ER Diagram

