

```

CREATE TABLE `bill_table` (
  `bill_id` int NOT NULL AUTO_INCREMENT,
  `Order_id` int NOT NULL,
  `Meds_id` int NOT NULL,
  `Pharmas_id` int NOT NULL,
  `Medicine_name` varchar(250) NOT NULL,
  `Pharmacist_Name` varchar(250) NOT NULL,
  `Quantity` int NOT NULL,
  `Total_Amount` double NOT NULL,
  `Discount_price` int NOT NULL,
  `Discounted_price` int NOT NULL,
  `To_Pay_Amount` int NOT NULL,
  `Billing_Date` datetime NOT NULL,
  PRIMARY KEY (`bill_id`),
  UNIQUE KEY `bill_id_UNIQUE` (`bill_id`),
  KEY `Meds_id_idx` (`Meds_id`),
  KEY `Pharmas_id_idx` (`Pharmas_id`),
  KEY `Order_id_idx` (`Order_id`),
  CONSTRAINT `Meds_id` FOREIGN KEY (`Meds_id`) REFERENCES `medicine_db`(`Medicine_id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `Order_id` FOREIGN KEY (`Order_id`) REFERENCES `order_db`(`order_id`),
  CONSTRAINT `Pharmas_id` FOREIGN KEY (`Pharmas_id`) REFERENCES `pharmacist_db`(`p_id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

CREATE TABLE `cart_medicine` (
  `id` int NOT NULL AUTO_INCREMENT,
  `pharmacist_id` int NOT NULL,
  `medicine_id` int NOT NULL,
  `quantity` int NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `id_UNIQUE` (`id`),
  KEY `p_id_idx` (`pharmacist_id`),
  KEY `med_id_idx` (`medicine_id`),
  CONSTRAINT `med_id` FOREIGN KEY (`medicine_id`) REFERENCES `medicine_db`(`Medicine_id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `p_id` FOREIGN KEY (`pharmacist_id`) REFERENCES `pharmacist_db`(`p_id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

CREATE TABLE `distributor_db` (
  `Distributor_ID` int NOT NULL AUTO_INCREMENT,
  `distributor_name` varchar(255) NOT NULL,
  `Distributor_Email` varchar(250) NOT NULL,
  `Password` varchar(250) NOT NULL,
  PRIMARY KEY (`Distributor_ID`),
  UNIQUE KEY `Destributor_ID_UNIQUE` (`Distributor_ID`),
  UNIQUE KEY `Destributor_Email_UNIQUE` (`Distributor_Email`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

```

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CREATE TABLE `medicine_category` (
  `Category_id` int NOT NULL AUTO_INCREMENT,
  `Category_Name` varchar(255) NOT NULL,
  PRIMARY KEY (`Category_id`)
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;

CREATE TABLE `medicine_db` (
  `Medicine_id` int NOT NULL AUTO_INCREMENT,
  `Medicine_name` varchar(250) NOT NULL,
  `Category_id` int NOT NULL,
  `Medicine_Quantity` int NOT NULL,
  `Manufacture_date` date NOT NULL,
  `Unit_Price` int NOT NULL,
  PRIMARY KEY (`Medicine_id`),
  UNIQUE KEY `Medicine_id_UNIQUE` (`Medicine_id`),
  KEY `Category_id_idx` (`Category_id`),
  CONSTRAINT `Category_id` FOREIGN KEY (`Category_id`) REFERENCES
`medicine_category` (`Category_id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=760 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;

CREATE TABLE `order_db` (
  `order_id` int NOT NULL AUTO_INCREMENT,
  `meds_id` int NOT NULL,
  `pharms_id` int NOT NULL,
  `pharmacist_name` varchar(250) NOT NULL,
  `Medicine_Name` varchar(250) NOT NULL,
  `Price` double NOT NULL,
  `Order_Date` datetime NOT NULL,
  PRIMARY KEY (`order_id`),
  UNIQUE KEY `order_id_UNIQUE` (`order_id`),
  KEY `FK_Meds_id_idx` (`meds_id`),
  KEY `FK_Pharmas_id_idx` (`pharms_id`),
  CONSTRAINT `FK_Meds_id` FOREIGN KEY (`meds_id`) REFERENCES `medicine_db`
(`Medicine_id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `FK_Pharmas_id` FOREIGN KEY (`pharms_id`) REFERENCES `pharmacist_db`
(`p_id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

CREATE TABLE `pharmacist_db` (
  `p_id` int NOT NULL AUTO_INCREMENT,
  `p_Name` varchar(250) NOT NULL,
  `P_Email` varchar(150) NOT NULL,
  `Address` varchar(250) NOT NULL,
  `Password` varchar(255) NOT NULL,
  PRIMARY KEY (`p_id`)
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;

```

Relations Between Tables In Text Format

bill_table

- bill_id (PK)
- Order_id (FK to order_db)
- Meds_id (FK to medicine_db)
- Pharmas_id (FK to pharmacist_db)
- Medicine_name
- Pharmacist_Name
- Quantity
- Total_Amount
- Discount_price
- Discounted_price
- To_Pay_Amount
- Billing_Date

cart_medicine

- id (PK)
- pharmacist_id (FK to pharmacist_db)
- medicine_id (FK to medicine_db)
- quantity

distributor_db

- Distributor_ID (PK)
- distributor_name
- Distributor_Email
- Password

medicine_category

- Category_id (PK)
- Category_Name

medicine_db

- Medicine_id (PK)
- Medicine_name
- Category_id (FK to medicine_category)
- Medicine_Quantity
- Manufacture_date
- Unit_Price

order_db

- order_id (PK)
- meds_id (FK to medicine_db)
- pharms_id (FK to pharmacist_db)
- pharmacist_name

- Medicine_Name
- Price
- Order_Date

pharmacist_db

- p_id (PK)
- p_Name
- P_Email
- Address
- Password

Stored Procedures Creation Statements

```
DELIMITER $$  
CREATE DEFINER='root'@`localhost` PROCEDURE `DeleteSingleDistributorData`(IN  
_Distributor_ID INT)  
BEGIN  
    DELETE FROM distributor_db WHERE Distributor_ID = _Distributor_ID;  
END$$  
DELIMITER ;  
  
DELIMITER $$  
CREATE DEFINER='root'@`localhost` PROCEDURE `DeleteSingleMedicineCategoryData`(IN  
_Category_id INT)  
BEGIN  
    DELETE FROM medicine_category WHERE Category_id = _Category_id;  
END$$  
DELIMITER ;  
  
DELIMITER $$  
CREATE DEFINER='root'@`localhost` PROCEDURE `GetAllCartMedicineData`()  
BEGIN  
    SELECT * FROM cart_medicine;  
END$$  
DELIMITER ;  
  
DELIMITER $$  
CREATE DEFINER='root'@`localhost` PROCEDURE `GetAllBillData`()  
BEGIN  
    SELECT * FROM bill_table;  
END$$  
DELIMITER ;  
  
DELIMITER $$  
CREATE DEFINER='root'@`localhost` PROCEDURE `DeleteSingleCartMedicineData`(IN _id  
INT)  
BEGIN  
    DELETE FROM cart_medicine WHERE id = _id;  
END$$
```

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DELIMITER ;

DELIMITER $$ 
CREATE DEFINER=`root`@`localhost` PROCEDURE `DeleteSingleBillData`(IN _bill_id INT)
BEGIN
    DELETE FROM bill_table WHERE bill_id = _bill_id;
END$$
DELIMITER ;

DELIMITER $$ 
CREATE DEFINER=`root`@`localhost` PROCEDURE `DeleteSingleMedicineData`(IN _Medicine_id INT)
BEGIN
    DELETE FROM medicine_db WHERE Medicine_id = _Medicine_id;
END$$
DELIMITER ;

DELIMITER $$ 
CREATE DEFINER=`root`@`localhost` PROCEDURE `DeleteSinglePharmacistData`(IN _p_id INT)
BEGIN
    DELETE FROM pharmacist_db WHERE p_id = _p_id;
END$$
DELIMITER ;

DELIMITER $$ 
CREATE DEFINER=`root`@`localhost` PROCEDURE `DeleteSingleOrderData`(IN _order_id INT)
BEGIN
    DELETE FROM order_db WHERE order_id = _order_id;
END$$
DELIMITER ;

DELIMITER $$ 
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetAllDistributorData`() 
BEGIN
    SELECT * FROM distributor_db;
END$$
DELIMITER ;

DELIMITER $$ 
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetAllMedicineCategoryData`() 
BEGIN
    SELECT * FROM medicine_category;
END$$
DELIMITER ;

DELIMITER $$ 
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetAllMedicineData`() 
BEGIN

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        SELECT * FROM medicine_db;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetAllPharmacistData`() BEGIN
        SELECT * FROM pharmacist_db;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetAllOrderData`() BEGIN
        SELECT * FROM order_db;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetSingleBillData`(IN _bill_id INT)
BEGIN
        SELECT * FROM bill_table WHERE bill_id = _bill_id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetSingleCartMedicineData`(IN _id INT)
BEGIN
        SELECT * FROM cart_medicine WHERE id = _id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetSingleDistributorData`(IN _Distributor_ID INT)
BEGIN
        SELECT * FROM distributor_db WHERE Distributor_ID = _Distributor_ID;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetSingleMedicineCategoryData`(IN _Category_id INT)
BEGIN
        SELECT * FROM medicine_category WHERE Category_id = _Category_id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetSingleMedicineData`(IN _Medicine_id

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INT)
BEGIN
    SELECT * FROM medicine_db WHERE Medicine_id = _Medicine_id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetSinglePharmacistData`(IN _p_id INT)
BEGIN
    SELECT * FROM pharmacist_db WHERE p_id = _p_id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `GetSingleOrderData`(IN _order_id INT)
BEGIN
    SELECT * FROM order_db WHERE order_id = _order_id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `InsertNewBillData`(IN _Order_id INT,
IN _Meds_id INT, IN _Pharmas_id INT, IN _Medicine_name VARCHAR(250), IN
_Pharmacist_Name VARCHAR(250), IN _Quantity INT, IN _Total_Amount DOUBLE, IN
_Discount_price INT, IN _Discounted_price INT, IN _To_Pay_Amount INT, IN
_Billing_Date DATETIME)
BEGIN
    INSERT INTO bill_table (Order_id, Meds_id, Pharmas_id, Medicine_name,
Pharmacist_Name, Quantity, Total_Amount, Discount_price, Discounted_price,
To_Pay_Amount, Billing_Date)
    VALUES (_Order_id, _Meds_id, _Pharmas_id, _Medicine_name, _Pharmacist_Name,
_Quantity, _Total_Amount, _Discount_price, _Discounted_price, _To_Pay_Amount,
_Billing_Date);
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `InsertNewCartMedicineData`(IN
_pharmacist_id INT, IN _medicine_id INT, IN _quantity INT)
BEGIN
    INSERT INTO cart_medicine (pharmacist_id, medicine_id, quantity)
    VALUES (_pharmacist_id, _medicine_id, _quantity);
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `InsertNewMedicineCategoryData`(IN
_Category_Name VARCHAR(255))
BEGIN
    INSERT INTO medicine_category (Category_Name)

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        VALUES (_Category_Name);
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `InsertNewDistributorData`(IN
_distributor_name VARCHAR(255), IN _Distributor_Email VARCHAR(250), IN _Password
VARCHAR(250))
BEGIN
    INSERT INTO distributor_db (distributor_name, Distributor_Email, Password)
    VALUES (_distributor_name, _Distributor_Email, _Password);
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `InsertNewMedicineData`(IN
_Medicine_name VARCHAR(250), IN _Category_id INT, IN _Medicine_Quantity INT, IN
_Manufacture_date DATE, IN _Unit_Price INT)
BEGIN
    INSERT INTO medicine_db (Medicine_name, Category_id, Medicine_Quantity,
Manufacture_date, Unit_Price)
    VALUES (_Medicine_name, _Category_id, _Medicine_Quantity, _Manufacture_date,
_Unit_Price);
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `InsertNewPharmacistData`(IN _p_Name
VARCHAR(250), IN _P_Email VARCHAR(150), IN _Address VARCHAR(250), IN _Password
VARCHAR(255))
BEGIN
    INSERT INTO pharmacist_db (p_Name, P_Email, Address, Password)
    VALUES (_p_Name, _P_Email, _Address, _Password);
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `InsertNewOrderData`(IN _meds_id INT,
IN _pharms_id INT, IN _pharmacist_name VARCHAR(250), IN _Medicine_Name
VARCHAR(250), IN _Price DOUBLE, IN _Order_Date DATETIME)
BEGIN
    INSERT INTO order_db (meds_id, pharms_id, pharmacist_name, Medicine_Name,
Price, Order_Date)
    VALUES (_meds_id, _pharms_id, _pharmacist_name, _Medicine_Name, _Price,
_Order_Date);
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `UpdateBillData`(IN _bill_id INT, IN

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```

_Order_id INT, IN _Meds_id INT, IN _Pharmas_id INT, IN _Medicine_name VARCHAR(250),
IN _Pharmacist_Name VARCHAR(250), IN _Quantity INT, IN _Total_Amount DOUBLE, IN
_Discount_price INT, IN _Discounted_price INT, IN _To_Pay_Amount INT, IN
_Billing_Date DATETIME)
BEGIN
    UPDATE bill_table
    SET Order_id = _Order_id, Meds_id = _Meds_id, Pharmas_id = _Pharmas_id,
Medicine_name = _Medicine_name, Pharmacist_Name = _Pharmacist_Name, Quantity =
_Quantity, Total_Amount = _Total_Amount, Discount_price = _Discount_price,
Discounted_price = _Discounted_price, To_Pay_Amount = _To_Pay_Amount, Billing_Date
= _Billing_Date
    WHERE bill_id = _bill_id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `UpdateCartMedicineData`(IN _id INT, IN
_pharmacist_id INT, IN _medicine_id INT, IN _quantity INT)
BEGIN
    UPDATE cart_medicine
    SET pharmacist_id = _pharmacist_id, medicine_id = _medicine_id, quantity =
_quantity
    WHERE id = _id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `UpdateDistributorData`(IN
_Distributor_ID INT, IN _distributor_name VARCHAR(255), IN _Distributor_Email
VARCHAR(250), IN _Password VARCHAR(250))
BEGIN
    UPDATE distributor_db
    SET distributor_name = _distributor_name, Distributor_Email =
_Distributor_Email, Password = _Password
    WHERE Distributor_ID = _Distributor_ID;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `UpdateMedicineCategoryData`(IN
_Category_id INT, IN _Category_Name VARCHAR(255))
BEGIN
    UPDATE medicine_category
    SET Category_Name = _Category_Name
    WHERE Category_id = _Category_id;
END$$
DELIMITER ;

DELIMITER $$
CREATE DEFINER=`root`@`localhost` PROCEDURE `UpdateMedicineData`(IN _Medicine_id

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INT, IN _Medicine_name VARCHAR(250), IN _Category_id INT, IN _Medicine_Quantity
INT, IN _Manufacture_date DATE, IN _Unit_Price INT)
BEGIN
    UPDATE medicine_db
        SET Medicine_name = _Medicine_name, Category_id = _Category_id,
    Medicine_Quantity = _Medicine_Quantity,
        Manufacture_date = _Manufacture_date, Unit_Price = _Unit_Price
    WHERE Medicine_id = _Medicine_id;
END$$
DELIMITER ;

DELIMITER $$

CREATE DEFINER=`root`@`localhost` PROCEDURE `UpdateOrderData`(IN _order_id INT, IN
_meds_id INT, IN _pharms_id INT, IN _pharmacist_name VARCHAR(250), IN
_Medicine_Name VARCHAR(250), IN _Price DOUBLE, IN _Order_Date DATETIME)
BEGIN
    UPDATE order_db
        SET meds_id = _meds_id, pharms_id = _pharms_id, pharmacist_name =
_pharmacist_name, Medicine_Name = _Medicine_Name, Price = _Price, Order_Date =
_Order_Date
    WHERE order_id = _order_id;
END$$
DELIMITER ;

DELIMITER $$

CREATE DEFINER=`root`@`localhost` PROCEDURE `UpdatePharmacistData`(IN _p_id INT, IN
_p_Name VARCHAR(250), IN _P_Email VARCHAR(150), IN _Address VARCHAR(250), IN
_Password VARCHAR(255))
BEGIN
    UPDATE pharmacist_db
        SET p_Name = _p_Name, P_Email = _P_Email, Address = _Address, Password =
_Password
    WHERE p_id = _p_id;
END$$
DELIMITER ;

```

Diagramtic Relation Between Using ERD Diagram
