**182-GURUH TALABASI XAYRULLAYEV SANJARBEKNING BER BASI FANIDAN 1-AMALIY MASHG‘ULOT TOPSHIRIGI JAVOBLARI**

**1. KONSEPTUAL MODEL**

**PREDMET SOHA: APTEKA2**

1. **Mijoz (Mijoz):**
   * **id (PK) - (Primary Key)**
   * **ism**
   * **familiya**
   * **telefon\_raqami**
   * **manzil**
   * **email**
   * **jins**
   * **tug'ilgan sana**
2. **Xodim (Xodim):**
   * **id (PK) - (Primary Key)**
   * **ism**
   * **familiya**
   * **lavozim**
   * **ishga\_qabul\_sana**
   * **maosh**
   * **telefon\_raqami**
   * **manzil**
3. **Dori (Dori):**
   * **id (PK) - (Primary Key)**
   * **nomi**
   * **turi**
   * **narxi**
   * **mavjud\_miqdor**
   * **ishlab\_chiqaruvchi**
   * **tasvir**
   * **amal\_muddati**
   * **tarkibi**
   * **yetkazib\_beruvchi\_id**
4. **Buyurtma (Buyurtma):**
   * **id (PK) - (Primary Key)**
   * **mijoz\_id (FK) - (Foreign Key)**
   * **xodim\_id (FK) - (Foreign Key)**
   * **buyurtma\_raqami**
   * **sana**
   * **umumiy\_summa**
   * **status**
   * **to'lov\_turi**
5. **Buyurtma\_dori (Buyurtma\_dori):**
   * **id (PK) (Primary Key)**
   * **buyurtma\_id (FK) - (Foreign Key)**
   * **dori\_id (FK) - (Foreign Key)**
   * **soni**
   * **narxi**
   * **umumiy\_summa**
6. **Retsept (Retsept):**
   * **id (PK) - (Primary Key)**
   * **shifokor (FK) - (Foreign Key)**
   * **xodim\_id (FK) (Foreign Key)**
7. **Retsept\_ma’lumotlari (Retsept\_ma’lumotlari):**
   * **id (PK) - (Primary Key)**
   * **retsept\_id (FK) (Foreign Key)**
   * **dori\_id (FK) - (Foreign Key)**
   * **dori\_nomi(FK) -( Foreign Key)**
   * **doza**
   * **doza\_kun**
   * **muddat**
   * **yetkazib\_beruvchi\_id**
8. **Yetkazib\_beruvchi (Yetkazib beruvchi):**
   * **id (PK) - (Primary Key)**
   * **nomi**
   * **telefon\_raqami**
   * **manzil**
   * **email**
   * **bog'lanish\_shaxs**
9. **Yetkazib berish (Yetkazib berish):**
   * **id (PK) - (Primary Key)**
   * **yetkazib\_beruvchi\_id (FK) - (Foreign Key)**
   * **dori\_id (FK) - (Foreign Key)**
   * **miqdor**
   * **yetkazib\_berish\_sanasi**
   * **narxi**
   * **umumiy\_summa**
   * **status**
10. **Ombor (Ombor):**
    * **id (PK) - (Primary Key)**
    * **nomi**
    * **manzil**
    * **bog'lanish\_shaxs**
11. **Ombor\_dori (Ombor\_dori):**
    * **id (PK) - (Primary Key)**
    * **ombor\_id (FK) - (Foreign Key)**
    * **dori\_id (FK) (Foreign Key)**
    * **mavjud\_miqdor**
    * **ombor\_nomi**
12. **Dorixona\_Jadvali (Dorixona Jadvali):**
    * **id (PK) - (Primary Key)**
    * **employee\_id (FK) - (Foreign Key)**
    * **date**
    * **shift\_start**
    * **shift\_end**
    * **rol**
    * **notes**

2. BAZANI YARATISH SQL KODLARI

1. CREATE DATABASE SCHOOL

MALUMOTLAR BAZASI YARATILDI

JADVALLAR QUYIDAGICHA YARATILADI

-- Maktab ma'lumotlar bazasini yaratish

CREATE DATABASE APTEKA2;

USE APTEKA2;

1.--Buyurtma jadval yaratamiz

CREATE TABLE Buyurtma (

id INT PRIMARY KEY AUTO\_INCREMENT,

mijoz\_id INT NOT NULL,

xodim\_id INT NOT NULL,

buyurtma\_raqami VARCHAR(20) NOT NULL,

mavjud\_miqdor INT NOT NULL,

sana date NOT NULL,

umumiy\_summa DECIMAL(10,2),

status enum(‘Yangi’,’Tasdiqlangan’,’Jo’natilgan’,’Yetk’),

tolov\_turi enum(‘Naqd’,’Karta’,’Bank’,’o’tkazmasi’),

UNIQUE (nomi, ishlab\_chiqaruvchi)

FOREIGN KEY (mijoz\_id) REFERENCES Mijoz(id) ON DELETE CASCADE

FOREIGN KEY (mijoz\_id) REFERENCES Mijoz(id) ON DELETE CASCADE

);

2--Dori jadval yaratamiz

CREATE TABLE Dori (

id INT PRIMARY KEY AUTO\_INCREMENT,

nomi VARCHAR(100) NOT NULL,

turi VARCHAR(50) NOT NULL,

narxi DECIMAL(10, 2) NOT NULL,

mavjud\_miqdor INT NOT NULL,

ishlab\_chiqaruvchi VARCHAR(100) NOT NULL,

tasvir TEXT,

amal\_muddati DATE,

tarkibi TEXT,

yetkazib\_beruvchi\_id INT,

UNIQUE (nomi, ishlab\_chiqaruvchi)

FOREIGN KEY (yetkazib\_beruvchi\_id) REFERENCES Yetkazib\_beruvchi(id) ON DELETE CASCADE

);

3-- Mijoz jadvali: Mijozlar haqida ma'lumot

CREATE TABLE Mijoz (

id INT PRIMARY KEY AUTO\_INCREMENT,

ism VARCHAR(100) NOT NULL,

familiya VARCHAR(100),

telefon\_raqami VARCHAR(15) NOT NULL,

manzil VARCHAR(255) NOT NULL,

email VARCHAR(100),

jins ENUM('Erkak', 'Ayol'),

tugilgan\_sana DATE

);

4-- Xodim jadvali: Dorixona xodimlari haqida ma'lumot

CREATE TABLE Xodim (

id INT PRIMARY KEY AUTO\_INCREMENT,

ism VARCHAR(100) NOT NULL,

familiya VARCHAR(100) NOT NULL,

lavozim VARCHAR(50) NOT NULL,

ishga\_qabul\_sana DATE NOT NULL,

maosh DECIMAL(10, 2) NOT NULL,

telefon\_raqami VARCHAR(15),

manzil VARCHAR(255)

);

5-- Buyurtma\_dori: Mijozlarning buyurtmalari

CREATE TABLE Buyurtma (

id INT PRIMARY KEY AUTO\_INCREMENT,

buyurtma\_id INT NOT NULL,

dori\_id INT NOT NULL,

soni INT NOT NULL,

narxi DECIMAL(10, 2) NOT NULL,

umumiy\_summa DECIMAL(10, 2) NOT NULL,

FOREIGN KEY (buyurtma\_id) REFERENCES Buyurtma(id) ON DELETE CASCADE

FOREIGN KEY (dori\_id) REFERENCES Dori(id) ON DELETE CASCADE

);

6-- Yetkazib\_beruvchi: Dorilarni yetkazib beruvchi

CREATE TABLE Yetkazib\_beruvchi (

id INT PRIMARY KEY AUTO\_INCREMENT,

nomi VARCHAR(100) NOT NULL,

telefon\_raqami VARCHAR(15) NOT NULL,

manzil VARCHAR(255) NOT NULL,

email VARCHAR(100),

bog'lanish\_shaxs VARCHAR(100)

);

7-- Yetkazib\_berish : Yetkazib berish jarayoni

CREATE TABLE Yetkazib\_berish (

id INT PRIMARY KEY AUTO\_INCREMENT,

yetkazib\_beruvchi\_id INT NOT NULL,

dori\_id INT NOT NULL,

miqdor INT NOT NULL CHECK (miqdor > 0),

yetkazib\_berish\_sanasi DATE NOT NULL,

narxi DECIMAL(10, 2) NOT NULL,

umumiy\_summa DECIMAL(10, 2) GENERATED ALWAYS AS (miqdor \* narxi) STORED,

status ENUM('Buyurtma berilgan', 'Yo‘lda', 'Yetkazilgan') NOT NULL,

FOREIGN KEY (yetkazib\_beruvchi\_id) REFERENCES Yetkazib\_beruvchi(id) ON DELETE CASCADE,

FOREIGN KEY (dori\_id) REFERENCES Dori(id) ON DELETE CASCADE

);

8-- Ombor: Dorilar saqlanadigan joy

CREATE TABLE Ombor (

id INT PRIMARY KEY AUTO\_INCREMENT,

nomi VARCHAR(100) NOT NULL,

manzil VARCHAR(255) NOT NULL,

bog'lanish\_shaxs VARCHAR(100)

);

9-- Ombor\_dori jadvali: Omborlardagi dorilar

CREATE TABLE Ombor\_dori (

id INT PRIMARY KEY AUTO\_INCREMENT,

ombor\_id INT NOT NULL,

dori\_id INT NOT NULL,

mavjud\_miqdor INT NOT NULL CHECK (mavjud\_miqdor >= 0),

ombor\_nomi VARCHAR(100),

FOREIGN KEY (ombor\_id) REFERENCES Ombor(id) ON DELETE CASCADE,

FOREIGN KEY (dori\_id) REFERENCES Dori(id) ON DELETE CASCADE

);

10-- Retsept jadvali: Mijozlar uchun retseptlar

CREATE TABLE Retsept (

id INT PRIMARY KEY AUTO\_INCREMENT,

shifokor VARCHAR(100) NOT NULL,

xodim\_id INT NOT NULL,

FOREIGN KEY (xodim\_id) REFERENCES Xodim(id) ON DELETE CASCADE

);

11-- Retsept\_ma'lumotlari jadvali: Retsept

CREATE TABLE Retsept\_malumotlari (

id INT PRIMARY KEY AUTO\_INCREMENT,

retsept\_id INT NOT NULL,

dori\_id INT NOT NULL,

dori\_nomi VARCHAR(100) NOT NULL,

doza VARCHAR(50) NOT NULL,

doza\_kun INT NOT NULL,

muddat DATE NOT NULL,

yetkazib\_beruvchi\_id INT,

FOREIGN KEY (retsept\_id) REFERENCES Retsept(id) ON DELETE CASCADE, FOREIGN KEY (dori\_id) REFERENCES Dori(id) ON DELETE CASCADE

FOREIGN KEY (dori\_nomi) REFERENCES Dori(nomi) ON DELETE CASCADE

FOREIGN KEY (yetkazib\_beruvchi\_id\_id) REFERENCES Yetkazib\_beruvchi(id) ON DELETE CASCADE

);

12-- Dorixona\_jadvali: Xodimlarning ish vaqtini rejalashtirish

CREATE TABLE Dorixona\_Jadvali (

id INT PRIMARY KEY AUTO\_INCREMENT,

employee\_id INT NOT NULL,

date DATE NOT NULL,

shift\_start TIME NOT NULL,

shift\_end TIME NOT NULL,

role VARCHAR(50) NOT NULL,

notes TEXT,

FOREIGN KEY (employee\_id) REFERENCES Xodim(id) ON DELETE CASCADE

);

3. MUNOSABATLAR SXEMASI

