# Pharmacist Key Performance Indicator Database Model - Database Design Document

## Contents

## Data Dictionary

| Entity | Attributes | Attribute_Notes | Data_Type |
|---|---|---|---|
| Employees | Emp_UserID (PK) | Unique user identification number provided at time of hire | INT |
| | Last_Name | Employee last name | VARCHAR(30) |
| | First_Name | Employee first name | VARCHAR(30) |
| | Initials | Employee initials | VARCHAR(3) |
| | Role_Type (FK) | Employee role (manager, pharmacist, admin) | VARCHAR(10) |
| | Start_Date | Employee hire date | DATE |
| | Train_Cmpl_Date | Date that employee completes training period | DATE |
| | End_Date | Date employee leaves company | DATE |
| | Leave_Date | Date employee begins leave of absence | DATE |
| | Status | Employee status: Active, On Leave, Inactive | VARCHAR(9) |
| Role | Role_Type (PK) | Role of employee: mngr, rph, admin. Only mngr will access the db, but roles may be used for permissions to DB later. | VARCHAR(5) |
| | Role_Name | Full name of role: manager, pharmacist, administrative | VARCHAR(14) |
| Patient | Insrd_ID (PK) | Unique insured identification number from benefit plan | INT |
| | Patient_Name | Patient full name | |
| | Patient_DOB | Patient date of birth | DATE |
| Appointments | Appt_Sequence (PK) | Compilation: Insrd_ID+Appt_Date+Appt_Time | VARCHAR(28) |
| | Insrd_ID (FK) | Insrd_ID from Patient table | INT |
| | Appt_Date | Appointment date | DATE |
| | Appt_Time | Appointment time | TIME |
| | Appt_Type | Appointment type: Initial or Follow-up | VARCHAR(9) |
| | Appt_Status | Appointment status: Scheduled, Missed, Canceled, or Completed | VARCHAR(9) |
| | Emp_UserID (FK) | Emp_UserID from Employee table | INT |
| MRP | MRP_ID (PK) | Primary key | INT |
| | Insrd_ID (FK) | Insrd_ID from Patient table | INT |
| | MRP_Type | Indication, Safety, Effectiveness, Adherence | VARCHAR(13) |
| | Create_DateTime | Date MRP is created | SMALLDATETIME |

| | Create_Emp_UserID (FK) | Emp_UserID from Employee table; employee who created MRP | INT |
|---|---|---|---|
| | Resolution_DateTime | Date MRP is resolved | SMALLDATETIME |
| | Resolve_Emp_UserID (FK) | Emp_UserID from Employee table; employee who resolved MRP | INT |
| | MRP_Note | Notes related to MRP | VARCHAR(400) |
| DSA | DSA_ID (PK) | Primary key | INT |
| | Insrd_ID (FK) | Insrd_ID from Patient table | INT |
| | Assessment_DateTime | Assessment date and time | SMALLDATETIME |
| | Assessment_Category | Assessment category (refers to clinical indication, such as hypertension, diabetes, asthma/copd, etc.) | VARCHAR(100) |
| | Assessment_Question | Assessment question | TINYTEXT |
| | Assessment_Response | Assessment response | TINYTEXT |
| | Create_Date | Date DSA was created | DATE |
| | Create_Emp_UserID (FK) | Emp_UserID from Employee table | INT |
| | DSA_Response_Note | Note regarding DSA response | VARCHAR(400) |
| Lab_Coll_Offices | Office_ID (PK) | Primary key | INT |
| | Office_Type | Lab office type: lab, doctor's office, or hospital | VARCHAR(15) |
| | Office_Name | Name of office where lab was collected | VARCHAR(50) |
| | License_Number | License number or NDC of primary supervising doctor; possible 2nd primary key if readily available | VARCHAR(12) |
| | Address1 | Lab office address line 1 | VARCHAR(50) |
| | Address2 | Lab office address line 2 | VARCHAR(10) |
| | City | Lab office city | VARCHAR(50) |
| | State | Lab office state | VARCHAR(3) |
| | Zip_Code | Lab office zip code | VARCHAR(10) |
| | Phone_Number | Lab office phone number | VARCHAR(22) |
| | Fax_Number | Lab office fax number | VARCHAR(22) |
| | Contact_Name | Name of primary office contact | VARCHAR(50) |
| Lab_Summary | Lab_ID (PK) | Primary key | INT |
| | Insrd_ID (FK) | Insrd_ID from Patient table | INT |
| | Ordering_Provider | Physician or health provider that ordered labs for patient | VARCHAR(50) |
| | Received_Date | Date lab was received by Care One-to-One office | DATE |
| | Coll_Office_ID (FK) | Office_ID in Lab_Coll_Offices table | INT |
| | Collection_Date | Date specimens were collected | DATE |
| Lab_Detail | Lab_ID (FK) | Lab_ID from Lab Summary table | INT |
| | Lab_EntryID (PK) | Primary key | INT |
| | Lab_Category | Lab area or panel | VARCHAR(20) |
| | Lab_Item | Lab item tested | VARCHAR(50) |
| | Lab_Value | Value of lab item | DECIMAL(10,4) |
| Progress_Notes | ProgNote_ID (PK) | Primary key | INT |
| | Insrd_ID (FK) | Insrd_ID from Patient table | INT |
| | Create_Date | Date progress note was created | DATE |
| | ProgNote_Entry | Progress note text | VARCHAR(400) |
| | Create_Emp_UserID (FK) | Emp_UserID from Employee table | INT |

# Database Schema

**Employees**

| | |
|---|---|
| PK | Emp_UserID (PK) |
| | Last_Name |
| | First_Name |
| | Initials |
| FK1 | Role_Type (FK) |
| | Start_Date |
| | Train_Cmpl_Date |
| | End_Date |
| | Leave_Date |
| | Status |

**Role**

| | |
|---|---|
| PK | Role_Type (PK) |
| | Role_Name |

**Patient**

| | |
|---|---|
| PK | Insrd_ID (PK) |
| | Patient_Name |
| | Patient_DOB |

**Appointments**

| | |
|---|---|
| PK | Appt_Sequence (PK) |
| FK1 | Insrd_ID (FK) |
| | Appt_Date |
| | Appt_Time |
| | Appt_Type |
| | Appt_Status |
| FK2 | Emp_UserID (FK) |

**MRP**

| | |
|---|---|
| PK | MRP_ID (PK) |
| FK1 | Insrd_ID (FK) |
| | MRP_Type |
| | Create_DateTime |
| FK2 | Create_Emp_UserID (FK) |
| | Resolution_DateTime |
| FK3 | Resolve_Emp_UserID (FK) |
| | MRP_Note |

**DSA**

| | |
|---|---|
| PK | DSA_ID (PK) |
| FK1 | Insrd_ID (FK) |
| | Assessment_DateTime |
| | Assessment_Category |
| | Assessment_Question |
| | Assessment_Response |
| | Create_Date |
| FK2 | Create_Emp_UserID (FK) |
| | DSA_Response_Note |

**Lab_Coll_Offices**

| | |
|---|---|
| PK | Office_ID (PK) |
| | Office_Type |
| | Office_Name |
| | License_Number |
| | Address1 |
| | Address2 |
| | City |
| | State |
| | Zip_Code |
| | Phone_Number |
| | Fax_Number |
| | Contact_Name |

**Lab_Summary**

| | |
|---|---|
| PK | Lab_ID (PK) |
| FK1 | Insrd_ID (FK) |
| | Ordering_Provider |
| | Received_Date |
| FK2 | Coll_Office_ID (FK) |
| | Collection_Date |

**Lab_Detail**

| | |
|---|---|
| FK1 | Lab_ID (FK) |
| PK | Lab_EntryID (PK) |
| | Lab_Category |
| | Lab_Item |
| | Lab_Value |

**Progress_Notes**

| | |
|---|---|
| PK | ProgNote_ID (PK) |
| FK1 | Insrd_ID (FK) |
| | Create_Date |
| | ProgNote_Entry |
| FK2 | Create_Emp_UserID (FK) |