North South University

Course Code – CSE 311
Course Title - Database Management System

Final Assignment

Pharmacy Management System

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Pharmacy Management System

Now a day's Information and communication technology (ICT) plays a great role in different fields or areas among thus Health care system belongs to this. This led to various studies and researches being conducted to selected health care facilities.

It is necessary to ensure a technologically appropriate, equitable, affordable, efficient, and environmentally adaptable and consumer friendly system, designed to fully utilize the ICT for the maximum benefit in the health care industry.

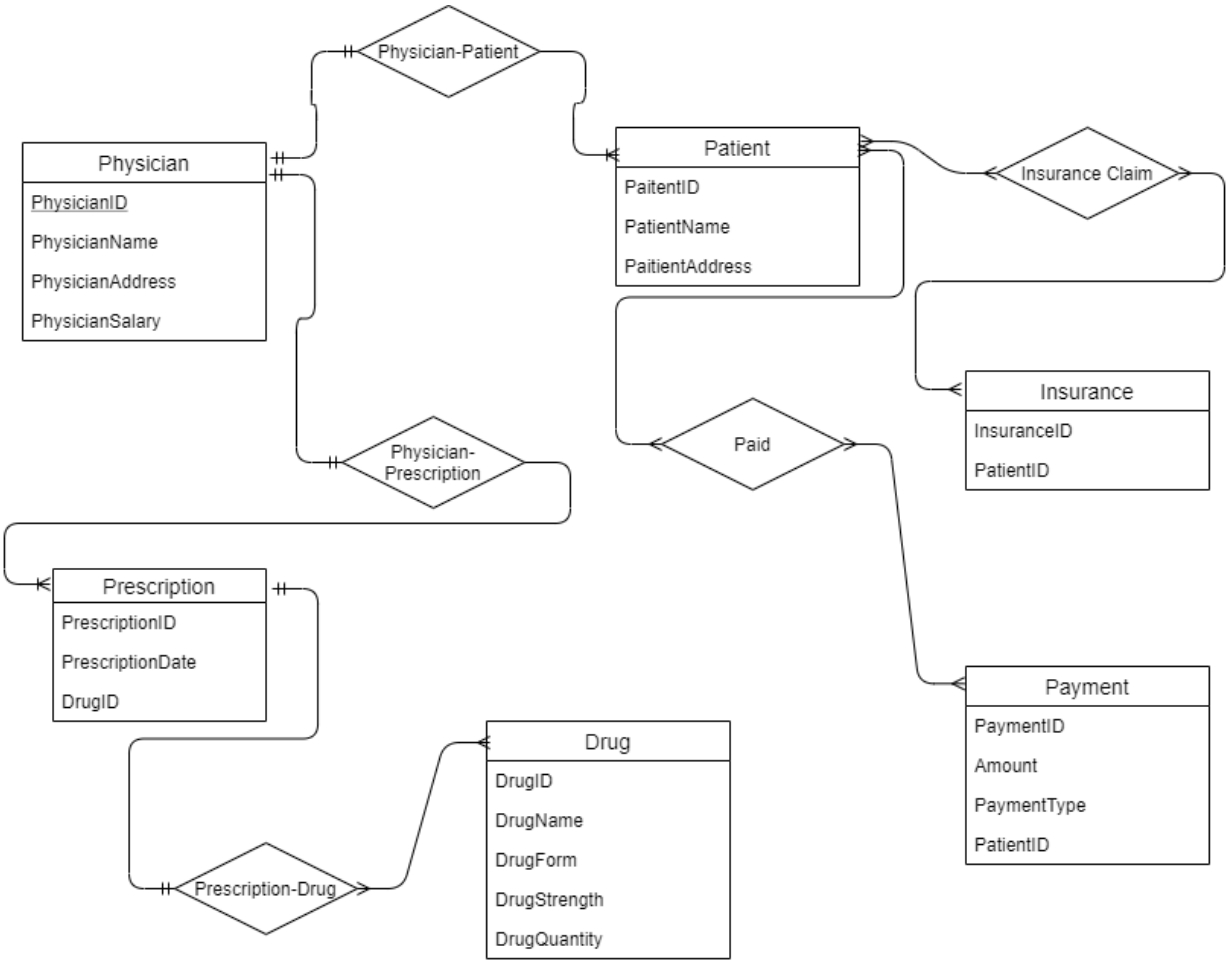
Regardless of the type of business you run, you will need a management system of some description. Within the pharmacology industry, however, this is even more important. Without adequate pharmacy management, people could get the wrong medication or medication in the wrong dosage, or it could be unclear whether or not they are receiving too much medication. These are highly complex computer systems. These are designed to ensure any pharmacy department, be that in a hospital, retail or online, is able to have all their needs met.

By using a pharmacy management system, a pharmacy manager or pharmacist is able to have input on how medication is used in a pharmacy, as well as supervising the dispensation of medication. There are a lot of activities that are included in these systems.

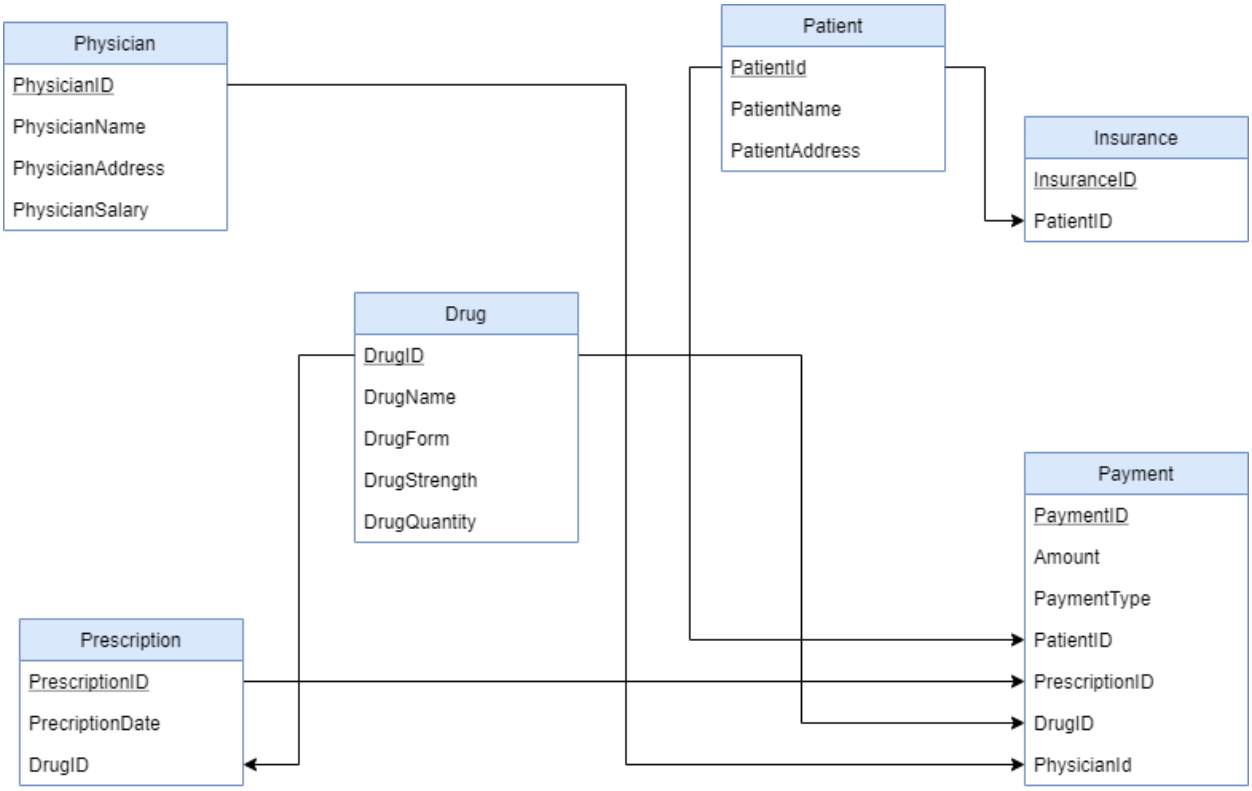
Data Dictionary of Database of Pharmacy Management System

Entity	Attributes	Data Type	Length	Primary Key
Physician	Physician ID Physician Name Physician Address Physician Salary	Int Varchar Varchar Int	10 25 100 99	√
Patient	Patient ID Patient Name Patient Address	Int Varchar Varchar	10 25 100	√
Drug	Drug ID Drug Name Drug Form Drug Strength Drug Quantity	Int Varchar Varchar Varchar Int	20 20 20 20 90	√
Prescription	Prescription ID Prescription Date	Int Date	99 Default	√
Insurance	Insurance ID	Int	20	√
Payment	Payment ID Amount	Int Int	10 99	√

ER Diagram


Physician-Patient
Physician
PhysicianID
PhysicianName
PhysicianAddress
PhysicianSalary
Patient
PaitentID
PatientName
PaitientAddress
Insurance Claim
Insurance
InsuranceID
PatientID
Paid
Physician-Prescription
Prescription
PrescriptionID
PrescriptionDate
DrugID
Payment
PaymentID
Amount
PaymentType
PatientID
Drug
DrugID
DrugName
DrugForm
DrugStrength
DrugQuantity
Prescription-Drug

Schema Diagram



Query

1.Finding the Name of the Patients who resides in New Mexico

Showing rows 0 - 1 (2 total, Query took 0.0378 seconds.)

```
SELECT PatientAddress, PatientName FROM patient where PatientAddress = 'New Mexico'
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refres

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	PatientAddress	PatientName
Edit Copy Delete	New Mexico	Walter White
Edit Copy Delete	New Mexico	Nacho

2. Finding the patient ID who paid though bKash.

Showing rows 0 - 2 (3 total, Query took 0.0018 seconds.)

```
SELECT PatientID,Amount,PaymentType FROM payment where PaymentType = 'bKash' AND
Amount >= 1000
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	PatientID	Amount	PaymentType
Edit Copy Delete	9	1647	bKash
Edit Copy Delete	3	1678	bKash
Edit Copy Delete	6	1568	bKash

Check all *With selected:* Edit Copy Delete

3.Seaching all Tablet type medicine.

Showing rows 0 - 3 (4 total, Query took 0.0027 seconds.)

```
SELECT DrugName, DrugForm FROM drug WHERE DrugForm = 'Tablet'
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create

Show all | Number of rows: 25 Filter rows:

+ Options

←T→	DrugName	DrugForm
Edit Copy Delete	Napa	Tablet
Edit Copy Delete	Peracetamol	Tablet
Edit Copy Delete	Tylace	Tablet
Edit Copy Delete	Esloric	Tablet

Tables with data

1.Drug Table

Showing rows 0 - 9 (10 total, Query took 0.0015 seconds.)

```
SELECT * FROM drug
```

Show all | Number of rows: 25 Filter rows: Search this table Sort by key:

+ Options

←T→	DrugID	DrugName	DrugForm	DrugStrength	DrugQuantity
Edit Copy Delete	1	Napa	Tablet	100mg	10
Edit Copy Delete	2	Peracetamol	Tablet	200 mg	20
Edit Copy Delete	3	Lantus Solo Star	Injection	500 mg	5
Edit Copy Delete	4	Ace	Syrup	50 mg	1
Edit Copy Delete	5	Osteo-D	Injection	100 mg	10
Edit Copy Delete	6	Acyclovir USP	Injection	5 mg	1
Edit Copy Delete	7	Tylace	Tablet	10 mg	10
Edit Copy Delete	8	Virux	Syrup	5 mg	1
Edit Copy Delete	9	Adovas	Syrup	10 mg	1
Edit Copy Delete	10	Esloric	Tablet	50 mg	10

2. Insurance Table

Showing rows 0 - 1 (2 total, Query took 0.0020 seconds.)

```
SELECT * FROM insurance
```

Profiling [Edit inline] [Edit] [Explain SQL] [Crea

Show all | Number of rows: 25 Filter rows

+ Options

	InsuranceId	PatientID
Edit Copy Delete	6535	1
Edit Copy Delete	5640	6

3. Payment Table

Showing rows 0 - 9 (10 total, Query took 0.0011 seconds.)

```
SELECT * FROM payment
```

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	PaymentID	Amount	PaymentType	PatientID
Edit Copy Delete	125	1350	Card	5
Edit Copy Delete	145	1647	bKash	9
Edit Copy Delete	158	1678	bKash	3
Edit Copy Delete	234	1000	Cash	1
Edit Copy Delete	245	1550	Card	2
Edit Copy Delete	452	1000	Cash	4
Edit Copy Delete	471	100	Cash	7
Edit Copy Delete	588	178	bKash	10
Edit Copy Delete	754	150	Card	8
Edit Copy Delete	854	1568	bKash	6

4.Patient Table

Showing rows 0 - 9 (10 total, Query took 0.0019 seconds.)

```
SELECT * FROM patient
```

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	PatientID	PatientName	PatientAddress
Edit Copy Delete	1	Ava Max	Vegas
Edit Copy Delete	2	Roxxane	Berlin
Edit Copy Delete	3	Sam Fisher	New York
Edit Copy Delete	4	Maxwell Harper	Vegas
Edit Copy Delete	5	Walter White	New Mexico
Edit Copy Delete	6	Nomad	New York
Edit Copy Delete	7	James Bond	London
Edit Copy Delete	8	Nacho	New Mexico
Edit Copy Delete	9	Hector	California
Edit Copy Delete	10	Escobar	Miami

5. Physician Table

Showing rows 0 - 3 (4 total, Query took 0.0011 seconds.)

```
SELECT * FROM physician
```

Show all | Number of rows: 25 Filter rows: Search this table Sort by key:

+ Options

	PhysicianID	PhysicianName	PhysicianAddress	PhysicianSalary
Edit Copy Delete	111	Mark	California	1200
Edit Copy Delete	112	Rob	Utah	1300
Edit Copy Delete	113	Marcus	New York	1250
Edit Copy Delete	114	Anston	Neveda	1230

Check all *With selected:* Edit Copy Delete Export

6. Prescription Table

Showing rows 0 - 3 (4 total, Query took 0.0015 seconds.)

```
SELECT * FROM prescription
```

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	PrescirptionID	PrescriptionDate	DrugID
Edit Copy Delete	96	2020-08-16	5
Edit Copy Delete	97	2020-06-21	2
Edit Copy Delete	98	2020-06-20	3
Edit Copy Delete	99	2020-02-20	1

Check all *With selected:* Edit Copy Delete Export

Appendix

```
CREATE DATABASE pharmacy_managment_system

CREATE TABLE Physician(
   PhysicianID int(10) not null ,
   PhysicianName varchar(25),
   PhysicianAddress varchar(100),
   PhysicianSalary int (99),
   PRIMARY KEY (PhysicianID)
   );

CREATE TABLE Patient(
   PatientID int(10) not null ,
   PatientName varchar(25),
   PatientAddress varchar(100),
   PRIMARY KEY (PatientID)
   );

Create TABLE Payment(
   PaymentID int(10),
   Amount int(99),
   PaymentType varchar(10),
   PatientID int(10),
```

```
   PRIMARY KEY (PaymentID),
FOREIGN KEY (PatientID) REFERENCES Patient(PatientID)
)


CREATE TABLE Drug (
   DrugID int(20),
   DrugName varchar(20)NOT Null,
   DrugForm varchar(20),
   DrugStrength varchar(20),
   DrugQuantity int(90),
   PRIMARY KEY (DrugID)
);

Create TABLE Prescription (
   PrescirptionID int(99) NOT NULL,
   PrescriptionDate date,
   PRIMARY KEY (PrescirptionID),
   DrugID int (20),
   FOREIGN KEY (DrugID) REFERENCES Drug(DrugID)
);
CREATE Table insurance(
   InsuranceId int(20) NOT NULL,
   PatientID int(10),
```

```
    FOREIGN KEY (DrugID) REFERENCES Drug(DrugID),
    PRIMARY KEY (InsuranceId)
);
```

****Inserting values[Dummy values]******

```
INSERT INTO drug(DrugID,DrugName,DrugForm,DrugStrength,DrugQuantity)
VALUES (1,'Napa','Tablet','100mg',10),
(2,'Peracetamol','Tablet','200 mg',20),
(3,'Lantus Solo Star','Injection','500 mg',5),
(4,'Ace','Syrup','50 mg',1),
(5,'Osteo-D','Injection','100 mg',10),
(6,'Acyclovir USP','Injection','5 mg',1),
(7,'Tylace','Tablet','10 mg',10),
(8,'Virux','Syrup','5 mg',1),
(9,'Adovas','Syrup','10 mg',1),
(10,'Esloric','Tablet','50 mg',10);

INSERT INTO patient(PatientID,PatientName,PatientAddress)
VALUES
(001,'Ava Max','Vegas'),
(002,'Roxxane', 'Berlin'),
(003,'Sam Fisher','New York'),
(004,'Maxwell Harper','Vegas'),
(005,'Walter White','New Mexico'),
(006,'Nomad','New York'),
(007,'James Bond','London'),
```

```
(008,'Nacho','New Mexico'),
(009,'Hector','California'),
(010,'Escobar','Miami');

INSERT INTO insurance (InsuranceId, PatientID )
VALUES(6535,001),
(5640,006);


INSERT INTO payment (PaymentID,Amount,PaymentType,PatientID)
VALUES
(234,1000,'Cash',001),
(245,1550,'Card',002),
(158,1678,'bKash',003),
(452,1000,'Cash',004),
(125,1350,'Card',005),
(854,1568,'bKash',006),
(471,100,'Cash',007),
(754,150,'Card',008),
(145,1647,'bKash',009),
(588,178,'bKash',010);

INSERT INTO
physician(PhysicianID,PhysicianName,PhysicianAddress,PhysicianSalary)
VALUES
```

```
(111,'Mark','California',1200),
(112,'Rob','Utah',1300),
(113,'Marcus','New York',1250),
(114,'Anston','Neveda',1230);

INSERT INTO prescription(PrescirptionID,PrescriptionDate,DrugID)
VALUES
(99,"2020-02-20",1),
(98,"2020-06-20",3),
(97,"2020-06-21",2),
(96,"2020-08-16",5);
```

N.B – Database command was done in MySQL.