Al Habib Pharmacy Application

Prince Sultan University

Department of Computer & Information Sciences

Introduction to Database Systems
Project

Instructor: **Ms. Roohi Jan**

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Introduction: OUTLINE

This projects' vision is to create an application for Al-Habib pharmacy to sell personal care items and medication online. Through this application Al-Habib aims to acquire new customers and turn them to loyal customers, increase revenue by 40% within 6 months, and decrease the long lines and overcrowded rush hours they receive on a daily basis.
The purpose of this document is to set a list of the prioritized functional requirements needed to implement the Al-Habib pharmacy application. In order to understand the most important features that need to be implemented within the first release will be decided through interviews conducted with the stakeholders. Understanding the users' requirements will also play a huge role in gathering our functional requirements and prioritizing them.

Background:

Customers of Al Habib Pharmacy have to go physically to the pharmacy building in order to purchase desired products, either medical or non-medical. Al Habib pharmacy has only two branches in Riyadh city, due to that, both branches are usually extremely busy and a customer may wait in line for approximately 50 minutes. Sometimes, certain products are not available but the customers cannot know that before going physically to the pharmacy. Due to the fact that both pharmacies are located in two very busy locations in Riyadh city, customers do not usually purchase non medical products from Al Habib pharmacy, although they would in case they were bound to visit the pharmacy for other medical products. Also, patients outside major cities have to go to nearby cities to refill their prescriptions.

Functional and Non-functional requirements:

- **Functional requirements:**

1-The system shall allow the user to create an account.
2-The system shall allow the user to log in if they have an account.
3-The system shall allow the user to continue as a guest.
4-The system shall allow the user to search for products.
5-The system shall allow users to choose the pick-up option from nearby pharmacies.
6-The system shall allow the user to choose the delivery option.
7-The system shall allow the user to schedule an appointment with a pharmacist.

- **Non-functional requirements:**

1. performance Requirements
   - 1.1 The system shall accommodate 600 users during the peak usage time window of 8:00am to 12:00pm local time, with an estimated average session duration of 10 minutes.
   - 1.2 All application pages generated by the system shall be fully downloadable in no more than 5 seconds.
   - 1.3 The system shall not move any item from the cart ,unless the user wants to remove it .

1.4 The system shall display confirmation messages to users within 5 seconds after the user submits order information to the system.

2. Safety Requirements

2.1 The system shall allow a special safety packaging for medicine orders .

2.2 The system shall reject any medicine order without prescription.

3. Security Requirements

3.1 The system shall lock a user's account after three consecutive unsuccessful login attempts within a period of five minutes.

3.2 All network transactions that involve financial information or personally identifiable information shall be encrypted.

3.3 All patients' information shall be secured.

4. Software Quality Attributes

4.1 Usability: the system shall be easy to use for children and elderly.

4.2 Robustness: If the connection between the user and the system is broken prior to an order
being either confirmed or canceled, the System shall enable the user to recover an incomplete order.

4.3 Availability: The System shall be available to users for 24 hour.

4.4 Portability: Modifying the iOS version of the application to run on Android devices shall require changing no more than 10 percent of the source code.

5. Business Rules

5.1 Only users who have Auditor access privileges shall be able to view transaction histories.

Data Requirements:

- **Entity table**

Entity	Description	Identifier	Attributes
User	Regular entity with basic information of all users who access and perform actions on the system.	USER_ID	● USER _ID ● Full_Name ● Phone_no ●Email_address ● Username ● Password
order	the arrangement or disposition medicine and non medicine based on delivery date .	Order_No	●order _ No ●Exp_Del_data ●order_data
PATIENT	A patient is a person who is receiving medical treatment from a doctor or hospital.	Patient_ID	●Patient_ID
prescription	an instruction written by a medical doctor that authorizes a patient to be issued with a medicine or treatment.	prescription_No	● Name_ patient ● Name _ Doctors ● Name _ Medicine ● perception ID
Pharmacist	Pharmacists dispense prescription medications to patients and offer expertise in the safe use of prescriptions.	Pharmacist_ID	● Pharmacist _ID ● degree
Pharmacy	Pharmacy to help and support patients and make sure they get the best care.	Pharmacy's _ name	●Pharmacy's _ name ●location_pharmacy
Delivery Man	delivery man type of user .	User_ID	● License_No
MEDICINE	It is a type of item	●Item _ no	● pharma_com ●Med name
general _item	it is type of item.	●item_no	●Brand
Doctor	physicians are licensed health professionals who maintain and restore human health through the practice of medicine.	Doctor_licence	● Doctor _licence

Item	**The description of the item contains information about the product .**	**Item _No**	**● item_No ●item_ Description ●Exp_data ●Qlty_in_hand ●Item _type ● price**

- **Relation Definition Table:**

Relationship Name	Type	Attributes	Entities	Description
Delivery	**Binary 1:M PP:TP**		Delivery Man , order	**This relationship allows the user to be linked to the delivery. And order.**

Work for	**Binary** **M:1** PP:PP		**Pharmacy, pharmacist**	**Many pharmacist are work for the pharmacy**
Issues	**Ternary** **PP:TP** **M:1:1**		**doctor , prescription, prescription.**	**This relationship allows the doctor to be linked to the perception . And patient .**
place	**Ternary** **PP:TP** **M:1:N**		**user , pharmacy and order .**	**This relationship allows the user to be linked to the pharmacy , order .**
contain	**Binary** **N:M** **TP:PP**		**pharmacy and item**	**Many pharmacy contain any order**
quantity	**Binary** **M:M** **PP:PP**		**prescription and Medicine**	**Many perception Quantity for each medicine .**
order_ item	**Binary** **M:M** **PP:TP**		**order and item**	**Many order order items each item .**
order prescription	**Binary** **M:M** **PP:PP**		**order and prescription**	**many order ,order perception each perception**

- **Attributes Definition Table:**

Entity	Attribute	Type	Null value	Discretion
User	Name	Composite Attribute	No	The full name of the user
	U-ID	Simple Attribute	No	unique number ID
	Email	Simple Attribute	No	User's register email
	Password	Simple Attribute	No	User's password to sign in
	Phone num	Unique Simple Attribute	No	User's phone num
	Address	Composite Attribute	No	The user's Address
Pharmacist	Name	Composite Attribute	No	The full name of the user
	P-ID	Simple Attribute	No	unique number ID
	Email	Simple Attribute	No	Pharmacist's register email

	Password	Simple Attribute	No	Pharmacist's password to sign in
Patient	name	simple Attributes	no	The full name of the Patient.
Delivery Man	Name	Composite Attribute	No	The full name of the user
	Phone num	Unique Simple Attribute	No	Delivery man's phone num
	Drive License	Unique Simple Attribute	No	Delivery man's Drive_License
Item	Name	Composite Attribute	No	The full name of the item
	Serial num	Unique Simple Attribute	No	Item's serial num
	Type	Simple Attribute	No	Medical or nonmedical
	Price	Simple Attribute	No	Item's price
	Expire date	Simple Attribute	No	Item's expire date
Pharmacy	Name	Simple Attribute	No	Pharmacy's name
Doctor	name	simple Attributes	no	The full name of the Doctor.
MEDICINE	Name Expired _date	Simple Attributes	No	Medicine name
general _ items	name	simple attribute	no	brand of this items

	Brand			

Use Case Diagram:

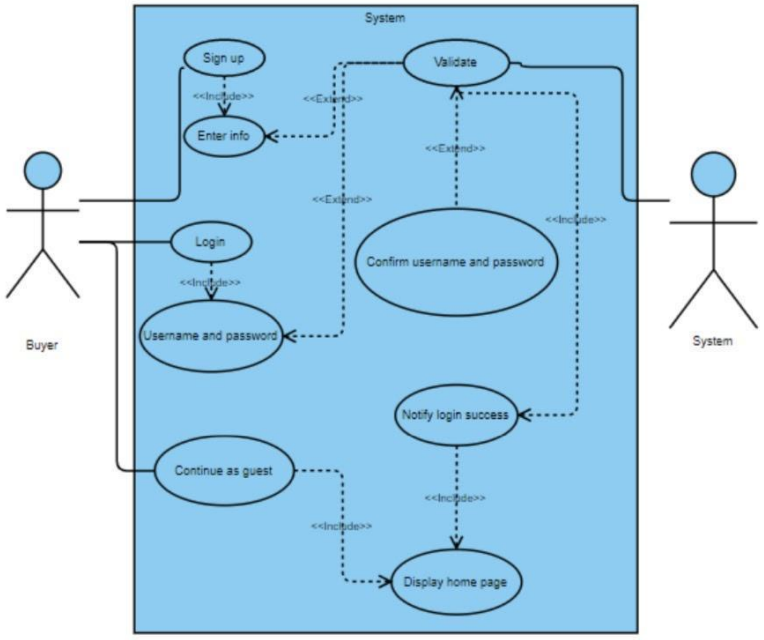


Figure 8: Create account use case diagram

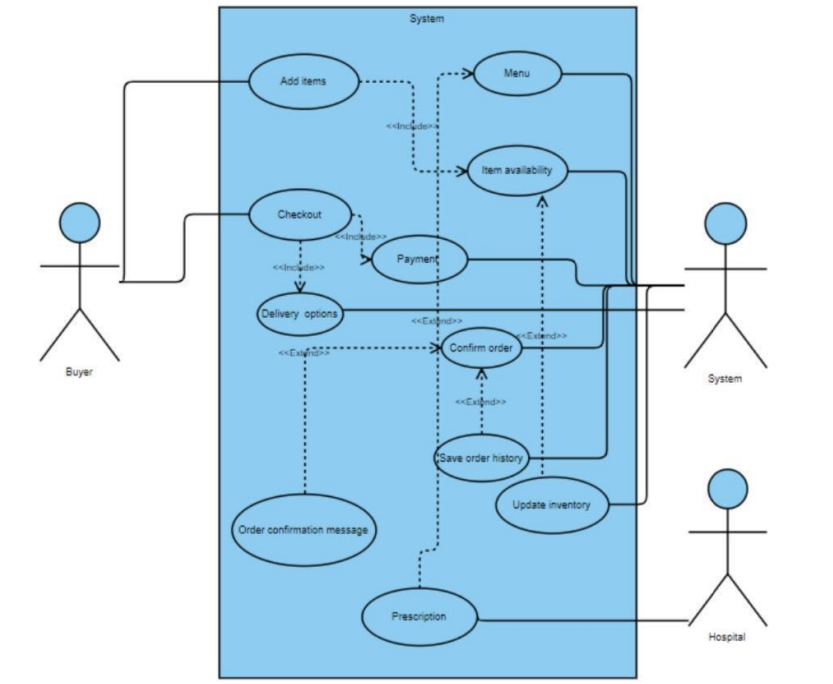


Figure 9: Create an order use case diagram

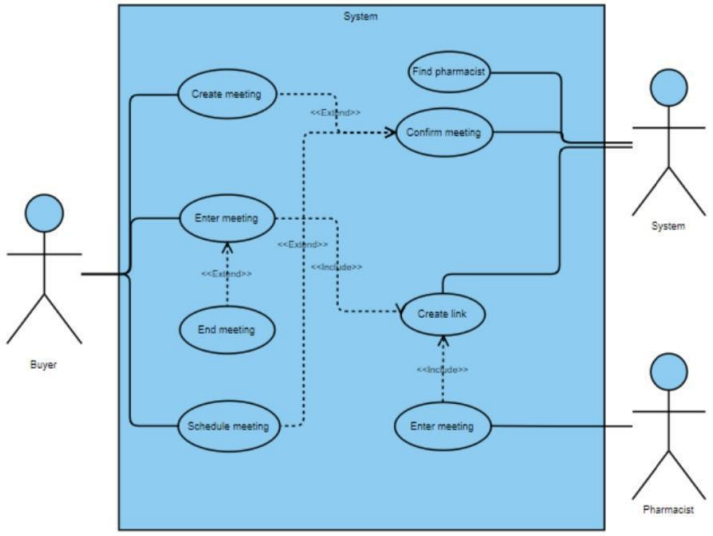


Figure 10: Meet a pharmacist use case diagram

UML Class Diagram:

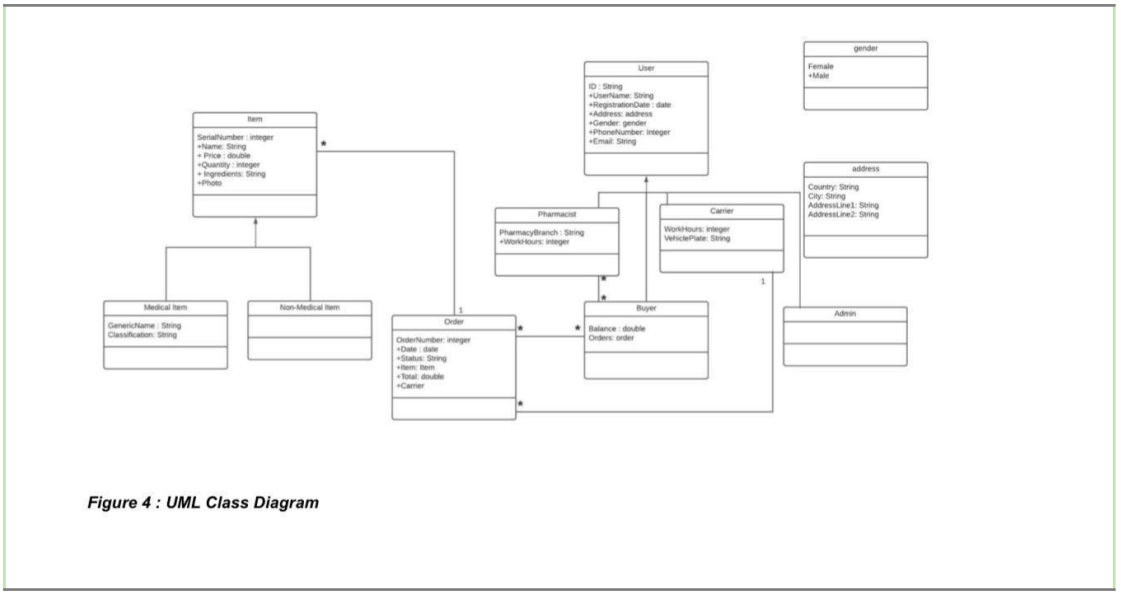


Figure 4 : UML Class Diagram

Specification for 15 Queries:

1. **List medical and General items that are available in the store.**
2. **Delivery the description**
3. **List the user are registered in AL Habib pharmacy**
4. **Show how many users Purchased each item .**
5. **Show each gender preference items.**
6. **List the items availability.**
7. **List the most expensive item**
8. **List the cheapest item .**
9. **Show the most purchased item.**
10. **Show user's age .**
11. **List the upcoming items.**
12. **List the sold out items .**
13. **Show how many delivery man are available.**
14. **List information of user's.**
15. **List the user's email address for ads .**

Specification for insert, delete, and modify records:

Insert:

Pharmacist , Alhabib database , User .

Delete:

Pharmacist , Alhabib database , User .
Modify:
Pharmacist , Alhabib database , User.

ASM and IEEE code of ethics :

1.5 Respect the work required to produce new ideas, inventions, creative works, and computing artifacts.

1.6 Respect privacy.

2.1 Strive to achieve high quality in both the processes and products of professional work.

3.6 Use care when modifying or retiring systems.

II. To treat all persons fairly and with respect, to not engage in harassment or discrimination, and to avoid injuring others.

to improve the understanding by individuals and society of the capabilities and societal implications of conventional and emerging technologies, including intelligent systems;

Teamwork distribution:

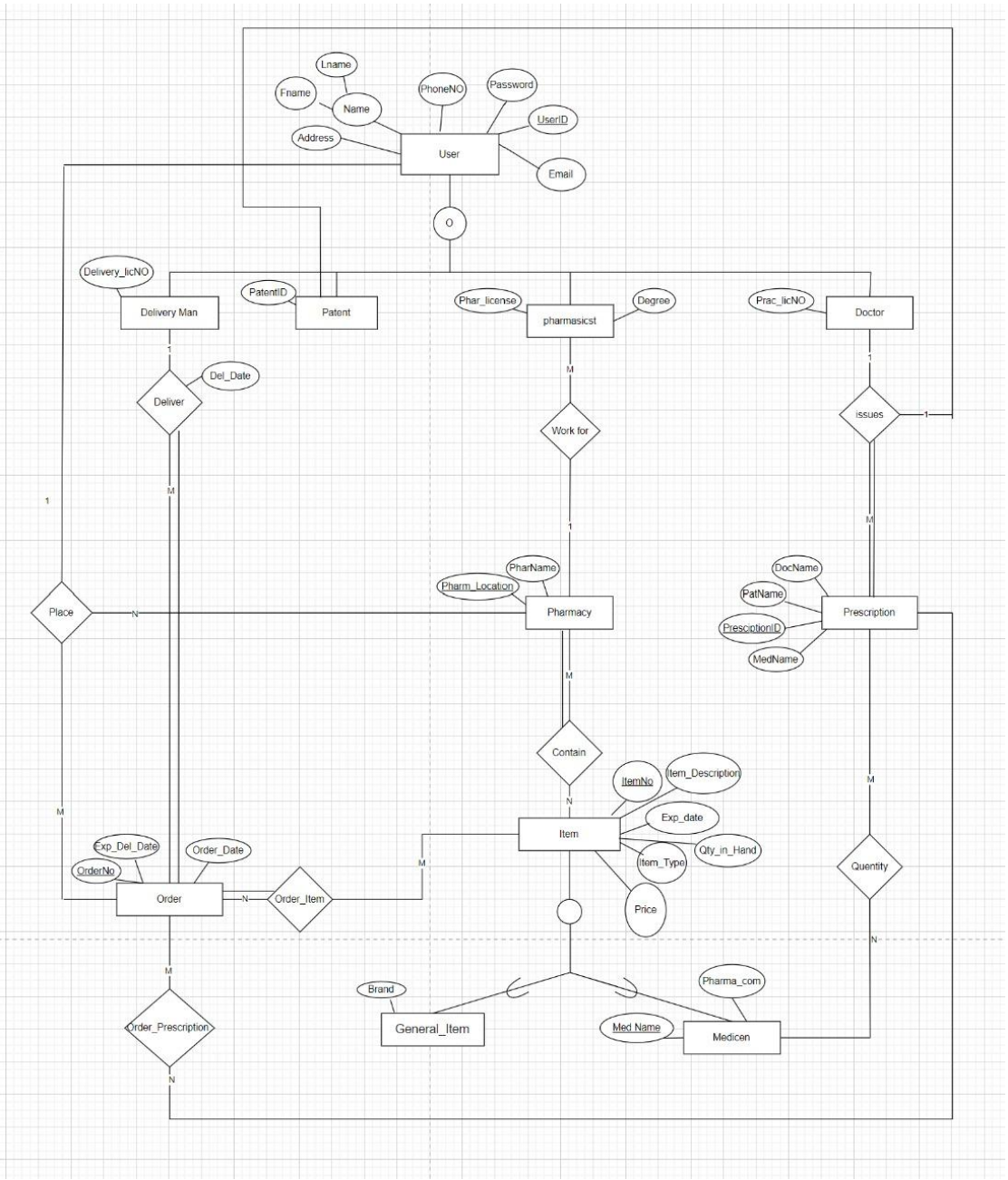
Student Name	Task Assigned
Safa	**roduction, description, purpose and scope, functional requirements, nfunctional requirements, data requirements, Use Case Diagram, Class agram, specification for 15 queries, Specification for insert, delete, and odify records.**
Sara	**Introduction, description, purpose and scope, functional requirements, nonfunctional requirements, data requirements, Use Case Diagram, Class Diagram, specification for 15 queries, Specification for insert, delete, and modify records.**

Salma	**Introduction, description, purpose and scope, functional requirements, nonfunctional requirements, data requirements, Use Case Diagram, Class Diagram, specification for 15 queries, Specification for insert, delete, and modify records.**
Samia	**Introduction, description, purpose and scope, functional requirements, nonfunctional requirements, data requirements, Use Case Diagram, Class Diagram, specification for 15 queries, Specification for insert, delete, and modify records.**

Phase 2

EER/ER Modelling

EER


Lname
Fname
Name
PhoneNO
Password
UserID
Address
User
Email
O
Delivery_licNO
Delivery Man
PatentID
Patent
Phar_license
pharmasicst
Degree
Prac_licNO
Doctor
1
Deliver
Del_Date
M
Work for
issues
1
M
1
M
PharName
Pharm_Location
Pharmacy
Place
N
DocName
PatName
PresciptionID
MedName
Prescription
M
Contain
N
ItemNo
Item_Description
Exp_date
Item
Item_Type
Qty_in_Hand
Price
M
Exp_Del_Date
Order_Date
OrderNo
Order
N
Order_Item
M
Quentity
N
M
Order_Prescription
N
Brand
General_Item
Pharma_com
Med Name
Medicen

Relationships between the entities

Entity Description:

-

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User	Regular entity with basic information of all users who access and perform actions on the system.	USER_ID	● USER _ID ● Full_Name ● Phone_no ●Email_address ● Username ● Password

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prescription	**an instruction written by a medical doctor that authorizes a patient to be issued with a medicine or treatment.**	**prescription_No**	**● Name_ patient ● Name _ Doctors ● Name _ Medicine ● perception ID**
Pharmacist	**Pharmacists dispense prescription medications to patients and offer expertise in the safe use of prescriptions.**	**Pharmacist_ID**	**● Pharmacist _ID ● degree**
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Entity Relationship:

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Business Rules:

BR-1: Users must access the system using a valid email address and password to sign in.

BR-2: All data must be synchronised to the server within 12 hours maximum.

BR-3: All databases must be hosted on Alhabib Web Services.

BR-4:The user is the entity responsible for cancelling their own order.

BR-5 : The user must confirm their account through text message.

BR-6 : The pharmacy must send the order to the user within 7 to 14 days

BR-7: All users must use a national ID / Iqama / tourist ID to sign up / login.

BR-8: Only users who have Auditor access privileges shall be able to view transaction histories.

BR-9: The user is the entity responsible for modifying their own order.

BR-10:Delivery man will communicate with user after completing the order.

BR-11:User phone number can’t be changed.

BR-12:Users password can’t last for more than 3 months.

BR-13:verification code will be send to the user phone number.

BR-14:All orders must have a prescription form a doctor.

BR-15:All doctors should write the med name in all prescriptions.

BR- 16:Users can apply coupon codes to get discounts.

Phase 3

Normalized Relational Model

Data Dictionary (Description of each entity):

User

Column Name	Key Type	Constraints	FK table	FK column	Data type	Length
User_ ID	**PK**	Not Null,unique			**varchar**	**9**
Full_Name		**Not NULL**			**varchar**	**40**
Phone_ number		Not Null,unique			**varchar**	**10**
Emial_address		Not Null,unique			**varchar**	**30**
Frist _Name		**Not NULL**			**varchar**	**10**
Last _Name		**Not NULL**			**varchar**	**10**

order

Column Name	Key Type	Constraints	FK	FK column	Data type	Length
order_ID	**PK**	Not Null,unique			**varchar**	**10**
Deliverylic n		Not null			**varchar**	**10**
del_date		not null			**varchar**	**20**
userID		foreign key	user		**varchar**	**9**

Patient

Column Name	Key Type	Constraints	FK	FK column	Data type	Length
Patient_ID					**varchar**	**10**

Prescription

Column Name	Key Type	Constraints	FK	FK column	Data type	Length

Prescription_ID	PK	Not NULL			varchar	10
name_Doctor		Not NULL			varchar	30
name_Medicine	PK	Not NULL			varchar	30
patient_Name		Not null			varchar	30
parac_licn	FK	not null	doctor		varchar	30
patient_ ID	fk	not null	patient		varchar	10

Pharmacist

Column Name	Key Type	Constraints	Fk table	FK column	Data type	Length
pharmacist_LicN		Not Null			varchar	10
Degree		Not Null		Location_Pharmcy	varchar	20

Pharmacy

Column Name	Key Type	Constraints	FK	FK column	Data type	Length
pharmacy_name		Not Null			varchar	30
location_pharmacy	PK	Not Null			varchar	30
pharmacist_LicN	fk	Not Null	pharmacist		varchar	10

Delivery Man

Column Name	Key Type	Constraints	FK	FK column	Data type	Length
Delivery_licen	unique	Not null			varchar	20

Medicine

Column Name	Key Type	Constraints	FK table	FK column	Data type	Length
Medicine _name	PK	Not null			varchar	20
pharmaceutical(company name)		Not null			varchar	20
Itemno	fk	Not null	item		number	20

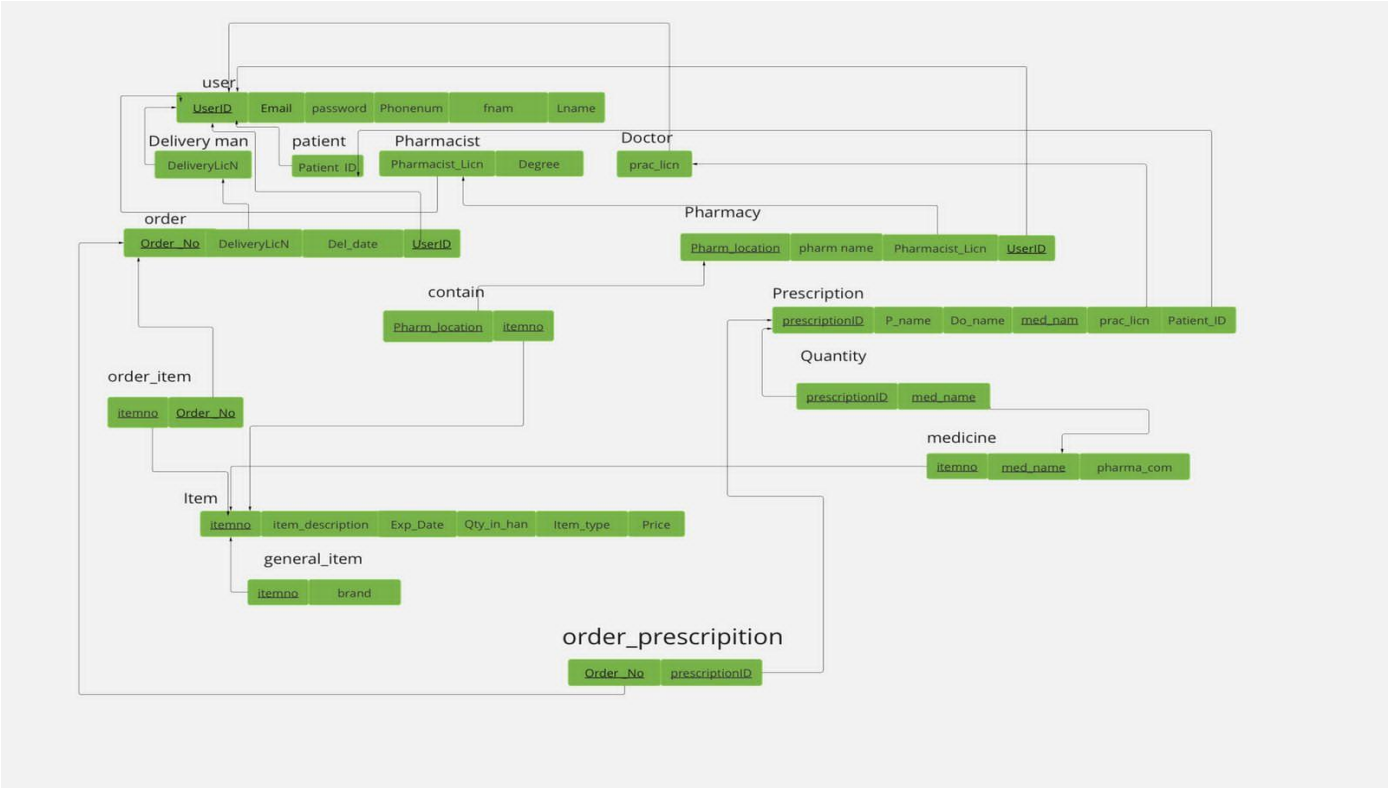
Doctor

Column Name	Key Type	Constraints	FK	FK column	Data type	Length
prac_LicNo	unique	Not null			varchar	20

Item

Column Name	Key Type	Constraints	FK table	FK column	Data type	Length
item no	PK				varcar	10
item_decription		Not null			varcar	30
price		Not null			number	10000
exp_data		Not null			date	50
Qty_in_han		not null			number	20
item_type		Not null			varchar	30

:Normalised Relational Model



Phase 4.a

Creating Tables

: Creating Tables

We created 12 tables for Alhabib Pharmacy using Apex Oracle

Table Name	Rows	Last Analyzed	Type
USERS	-	-	TABLE
QUANTITY	-	-	TABLE
PRESCRIPTION	-	-	TABLE
PHARMACIST	-	-	TABLE
PHARAMCY	-	-	TABLE
PATENT	-	-	TABLE
ORDERS	-	-	TABLE
ORDER_PRESCRIPTION	-	-	TABLE
ORDER_ITEM	-	-	TABLE
MEDICEN	-	-	TABLE
ITEM	-	-	TABLE
GENERAL_ITEM	-	-	TABLE
DOCTOR	-	-	TABLE
DELIVERYMAN	-	-	TABLE
CONTAIN	-	-	TABLE

CREATE TABLE USERS
,user_id varchar2(9) PRIMARY KEY)
,fname varchar2(50) NOT NULL
,lname varchar2(50) NOT NULL
,email varchar2(50) NOT NULL
,password1 varchar2(30) NOT NULL
phone_number NUMBER(10) NOT NULL
;(

```
1   CREATE TABLE USERS
2   ( user_id varchar2(9) PRIMARY KEY,
3   fname varchar2(50) NOT NULL,
4   lname varchar2(50) NOT NULL,
5   email varchar2(50) NOT NULL,
6   password1 varchar2(30) NOT NULL,
7   phone_number NUMBER(10) NOT NULL
8   );
```

Results | Explain | Describe | Saved SQL | History

Table created.

CREATE TABLE DELIVERYMAN
,(delivery_liceNO varchar2(30)
(FOREIGN KEY (delivery_liceNO) REFERENCES USERS(user_id
;(

```
1   CREATE TABLE DELIVERYMAN
2   ( delivery_liceNO varchar2(30),
3   FOREIGN KEY (delivery_liceNO) REFERENCES USERS(user_id)
4   );
5
```

Results | Explain | Describe | Saved SQL | History

```
Table created.

0.03 ثوان
```

CREATE TABLE PATENT
,(patentID varchar2(30)
(FOREIGN KEY (patentID) REFERENCES USERS(user_id
;(

```
1   CREATE TABLE PATENT
2   ( patentID varchar2(30),
3   FOREIGN KEY (patentID) REFERENCES USERS(user_id)
4   );
5
6
7
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

CREATE TABLE PHARMACIST
,phar_liceNO varchar2(30) NOT NULL)
,Degree_pharmisit varchar2(50)NOT NULL
(FOREIGN KEY (phar_liceNO) REFERENCES USERS(user_id
;(

```
3   CREATE TABLE PHARMACIST
4   ( phar_liceNO varchar2(30) NOT NULL,
5   Degree_pharmisit varchar2(50)NOT NULL,
6   FOREIGN KEY (phar_liceNO) REFERENCES USERS(user_id)
7    );
8
9
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

CREATE TABLE doctor
,(prac_liceNO varchar2(30)
(FOREIGN KEY (prac_liceNO) REFERENCES USERS(user_id
;(

```
3   CREATE TABLE doctor
4   ( prac_liceNO varchar2(30),
5   FOREIGN KEY (prac_liceNO) REFERENCES USERS(user_id)
6
7   );
8
9
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

CREATE TABLE ORDERS
,order_id varchar2(30) PRIMARY KEY)
,delivaryLicn varchar2(30) not null
,del_date date not null
(user_id varchar2(9
;(

```
1   CREATE TABLE ORDERS
2   ( order_id varchar2(30) PRIMARY KEY,
3   delivaryLicn varchar2(30) not null,
4   del_date date not null,
5   user_id varchar2(9)
6   );
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

ALTER TABLE ORDERS ADD FOREIGN KEY (user_id) REFERENCES USERS (user_id) ON DELETE SET NULL;

```
1   ALTER TABLE ORDERS ADD FOREIGN KEY (user_id) REFERENCES USERS (user_id) ON DELETE SET NULL;
```

Results | Explain | Describe | Saved SQL | History

```
able altered.
```

CREATE TABLE ITEM
,itemNO Number(9) NOT NULL PRIMARY KEY)
,item_description varchar2(50) NOT NULL
,Exp_date DATE NOT NULL
,Qty_in_hand NUMBER(9) NOT NULL
,item_type varchar2(30) NOT NULL
price number(9) NOT NULL
;(

```sql
CREATE TABLE ITEM
( itemNO Number(9) NOT NULL PRIMARY KEY,
item_description varchar2(50) NOT NULL,
Exp_date DATE NOT NULL,
Qty_in_hand NUMBER(9) NOT NULL,
item_type varchar2(30) NOT NULL,
price number(9) NOT NULL
);

```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

```sql
CREATE TABLE MEDICEN
,med_name varchar2(50) NOT NULL primary key )
,pharma_com varchar2(50) NOT NULL
,itemNO Number(9) NOT NULL
(FOREIGN KEY (itemNO) REFERENCES ITEM (itemNO
;(
```

```sql
CREATE TABLE MEDICEN
( med_name varchar2(50) NOT NULL primary key,
pharma_com varchar2(50) NOT NULL,
itemNO Number(9) NOT NULL,
FOREIGN KEY (itemNO) REFERENCES ITEM (itemNO)
);

```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

```sql
CREATE TABLE general_item
,brand varchar2(50)NOT NULL )
,itemNO Number(9) NOT NULL
(FOREIGN KEY (itemNO) REFERENCES ITEM (itemNO
;(
```

```sql
CREATE TABLE general_item
( brand varchar2(50)NOT NULL,
itemNO Number(9) NOT NULL,
FOREIGN KEY (itemNO) REFERENCES ITEM (itemNO)
);
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

```
CREATE TABLE ORDER_ITEM
, (order_id varchar2(30 )
,itemNO Number(9) NOT NULL
,(FOREIGN KEY (itemNO) REFERENCES ITEM (itemNO
(FOREIGN KEY (order_id) REFERENCES ORDERS (order_id
;(
```

```sql
CREATE TABLE ORDER_ITEM
( order_id varchar2(30) ,
itemNO Number(9) NOT NULL,
FOREIGN KEY (itemNO) REFERENCES ITEM (itemNO),
FOREIGN KEY (order_id) REFERENCES ORDERS (order_id)
);
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

```
CREATE TABLE PHARAMCY
,pharm_location varchar2(50) PRIMARY KEY )
,pharName varchar2 (20) NOT NULL
,phar_liceNO varchar2(30) NOT NULL
user_id varchar2(9) NOT NULL
```

;(

```
1   CREATE TABLE PHARAMCY
2   ( pharm_location varchar2(50) PRIMARY KEY,
3   pharName varchar2 (20) NOT NULL,
4   phar_liceNO varchar2(30) NOT NULL,
5   user_id varchar2(9) NOT NULL
6   );
7
8
9
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

) CREATE TABLE PRESCRIPTION
,DocName VARCHAR2 (20)not null
,patName VARCHAR2 (20)not null
,PrescriptionID VARCHAR2 (30) PRIMARY KEY
,(medName VARCHAR2 (30
(prac_liceNO VARCHAR2 (30
;(

```sql
CREATE TABLE PRESCRIPTION (
DocName VARCHAR2 (20)not null,
patName VARCHAR2 (20)not null,
PrescriptionID VARCHAR2 (30) PRIMARY KEY,
medName VARCHAR2 (30),
prac_liceNO VARCHAR2 (30)
);

```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

) CREATE TABLE QUANTITY
,(PrescriptionID VARCHAR2 (30
,med_name varchar2(50) NOT NULL
,(FOREIGN KEY (med_name) REFERENCES MEDICEN (med_name
(FOREIGN KEY (PrescriptionID) REFERENCES PRESCRIPTION (PrescriptionID
(

```sql
CREATE TABLE QUANTITY (
PrescriptionID VARCHAR2 (30),
med_name varchar2(50) NOT NULL,
FOREIGN KEY (med_name) REFERENCES MEDICEN (med_name),
FOREIGN KEY (PrescriptionID) REFERENCES PRESCRIPTION (PrescriptionID)
)
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

) CREATE TABLE CONTAIN
,pharm_location varchar2(50) NOT NULL
,itemNO Number(9) NOT NULL
,(FOREIGN KEY (itemNO) REFERENCES ITEM (itemNO
(FOREIGN KEY (pharm_location) REFERENCES PHARAMCY (pharm_location
(

```
1  CREATE TABLE CONTAIN (
2  pharm_location varchar2(50) NOT NULL,
3  itemNO Number(9) NOT NULL,
4  FOREIGN KEY (itemNO) REFERENCES ITEM (itemNO),
5  FOREIGN KEY (pharm_location) REFERENCES  PHARAMCY (pharm_location)
6  )
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

) CREATE TABLE ORDER_PRESCRIPTION
,(order_id varchar2(30
,(PrescriptionID VARCHAR2 (30
,(FOREIGN KEY (order_id) REFERENCES ORDERS (order_id
(FOREIGN KEY (PrescriptionID) REFERENCES PRESCRIPTION (PrescriptionID
(

```
1  CREATE TABLE ORDER_PRESCRIPTION (
2  order_id varchar2(30),
3  PrescriptionID VARCHAR2 (30),
4  FOREIGN KEY (order_id) REFERENCES ORDERS (order_id),
5  FOREIGN KEY (PrescriptionID) REFERENCES  PRESCRIPTION (PrescriptionID)
6  )
```

Results | Explain | Describe | Saved SQL | History

```
Table created.
```

USER TABLE

```
1  SELECT *
2  FROM USERS
```

Results | Explain | Describe | Saved SQL | History

USER_ID	FNAME	LNAME	EMAIL	PASSWORD1	PHONE_NUMBER
112334C	SALWA	HASAN	SALAWA123@gmail.com	3342238S	505655333
123458A	SARA	HUQAIL	sarah123@gmail.com	07770007A	5056554500
4434599F	AMAL	ASAID	AMAL123@gmail.com	889777688D	5056554444
1332222S	HESAH	HAMAD	HESA123@gmail.com	44332880B	5056577777
5555644N	NOUF	HAMED	NOUF123@gmail.com	077888985	505655555
1235556R	ROUBE	RAYAN	ROUBE123@gmail.com	0098876AA	505655888
123567B	NOURA	MUHAMAD	NOURA123@gmail.com	6675554S	5056554889
123457C	MAHA	KHALID	MAHA123@gmail.com	11223433	5056554599
334424X	MANAR	SAOUD	MANARh123@gmail.com	99088765C	505655885
4448903Q	MOHAMAD	AHMAD	MOHAMAD123@gmail.com	6679999D	5056552222

PATENT TABLE

```
SELECT *
FROM PATENT
```

Results | Explain | Describe | Saved SQL | History

PATENTID
1332222S
123458A
334424X
4448903Q
5555644N
4434599F
123457C
112334C
1235556R
123567B

ITEM TABLE

```
FROM ITEM
```

Results | Explain | Describe | Saved SQL | History

ITEMNO	ITEM_DESCRIPTION	EXP_DATE	QTY_IN_HAND	ITEM_TYPE	PRICE
12349	helth	09-09-2022	1129	helthcare	77
12346	helth	06-06-2022	1126	helthcare	44
12345	helth	05-05-2022	1125	helthcare	11
12348	helth	08-08-2022	1128	skincare	55
12342	helth	02-02-2022	1122	helthcare	22
12347	helth	07-07-2022	1127	helthcare	66
12340	helth	10-10-2022	1110	skincare	33
12341	helth	01-01-2022	1121	skincare	10
12343	helth	03-03-2022	1123	helthcare	88
12344	helth	04-04-2022	1124	skincare	99

DELIVERYMA

```
SELECT *
FROM DELIVERYMAN
```

Results | Explain | Describe | Saved SQL | History

DELIVERY_LICENO
123458A
123458A
1235556R
4434599F
4448903Q
123567B
334424X
5555644N
123457C
1332222S

يتوفر أكثر من 10 من الصفوف. قم بزيادة محدد الصفوف لعرض المزيد من الصفوف.

General_item TABLE

```
SELECT *
FROM general_item
```

Results | Explain | Describe | Saved SQL | History

BRAND	ITEMNO
DD	12342
AA	12346
AA	12341
CC	12343
SS	12348
FF	12340
CC	12347
AA	12349
CC	12343
SS	12344

يتوفر أكثر من 10 من الصفوف. قم بزيادة محدد الصفوف لعرض المزيد من الصفوف.

MEDICEN TABLE

```
SELECT *
FROM MEDICEN
```

Results | Explain | Describe | Saved SQL | History

MED_NAME	PHARMA_COM	ITEMNO
AFFOO	A	12341
EFFOO	A	12345
VFFOO	A	12347
REFFOO	C	12346
UFFOO	X	12348
BEFFOO	A	12342
XFFOO	A	12349
CEFFOO	D	12343
DEFFOO	C	12344
YFFOO	F	12340

PHARAMCY TABLE

```
SELECT *
FROM PHARAMCY
```

Results | Explain | Describe | Saved SQL | History

PHARM_LOCATION	PHARNAME	PHAR_LICENO	USER_ID
ALWROD	ALHABIB2	123567B	5555644N
ALNASRIA	ALHABIB3	123457C	4448903Q
ALMALAZ	ALHABIB4	112334C	1332222S
ALTAKHASOSSI	ALHABIB7	1332222S	112334C
ALRAWDAH	ALHABIB8	4448903Q	123457C
ALNAFL	ALHABIB0	1235556R	123458A
ALALYASAMEEN	ALHABIB5	334424X	4434599F
ALJABL	ALHABIB9	5555644N	123567B
online	Alhabeb9	1235556R	123458A
ALAZEZIAH	ALHABIB6	4434599F	334424X

Doctor table

```
SELECT *
FROM doctor
```

Results | Explain | Describe | Saved SQL | History

PRAC_LICENO
1235556R
1235556R
123458A
112334C
4434599F
1332222S
4448903Q
123567B
123457C
123457C

يتوفر أكثر من 10 من الصفوف. قم بزيادة محدد الصفوف لعرض المزيد من الصفوف.

PHARMACIST TABLE

```
SELECT *
FROM PHARMACIST
```

Results | Explain | Describe | Saved SQL | History

PHAR_LICENO	DEGREE_PHARMISIT
112334C	B
334424X	B
123458A	A
123457C	A
5555644N	C
123567B	A
1332222S	A1
4448903Q	A1
4434599F	B
1235556R	C

10 rows returned in 0.01 seconds Download

ORDERS TABLE

```
SELECT *
FROM ORDERS
```

Results | Explain | Describe | Saved SQL | History

ORDER_ID	DELIVERY_LICENO	DEL_DATE	USER_ID
09875	334424X	01-4-2022	334424X
09879	5555644N	01-4-2022	5555644N
09872	123567B	01-4-2022	123567B
09876	4434599F	01-4-2022	4434599F
09878	4448903Q	01-4-2022	4448903Q
09871	123458A	01-4-2022	123458A
09873	123457C	01-4-2022	123457C
09874	112334C	01-4-2022	112334C
09877	1332222S	01-4-2022	1332222S
09870	1235556R	01-4-2022	1235556R

10 rows returned in 0.00 seconds Download

PRESCRIPTION TABLE

```
SELECT *
FROM PRESCRIPTION
```

Results | Explain | Describe | Saved SQL | History

DOCNAME	PATNAME	PRESCRIPTIONID	MEDNAME	PRAC_LICENO
MARAM	SAUD	14141414	AEFOO	12343
MAHA	SARA	12121212	FEEFOO	12341
AHMAD	NUHA	13131313	BEFOO	12342
NOUF	MARAM	16161616	GEFOO	12345
HEESA	REEM	35353535	MEEFOO	12340
MAHA	NADA	17171717	FEEFOO	12346
NOUF	SARA	18181818	OEEFOO	12347
REEMA	SARA	19191919	JEEFOO	12348
NASEER	AMAL	15151515	DEFOO	12344
HEESA	AMAL	73737373	ZEEFOO	12349

10 rows returned in 0.02 seconds Download

CONTAIN TABLE

```
SELECT *
FROM CONTAIN
```

Results | Explain | Describe | Saved SQL | History

PHARM_LOCATION	ITEMNO
ALAZEZIAH	12345
ALJABL	12348
ALNAFL	12349
online	12340
ALALYASAMEEN	12344
ALRAWDAH	12347
ALMALAZ	12343
ALTAKHASOSSI	12346
ALWROD	12341
ALNASRIA	12342

```
SELECT *
FROM ORDER_ITEM
```

Results | Explain | Describe | Saved SQL | History

ORDER_ID	ITEMNO
09871	12341
09872	12342
09873	12343
09874	12344
09875	12345
09876	12346
09877	12347
09879	12349
09875	12345
09878	12348

يتوفر أكثر من 10 من الصفوف. قم بزيادة محدد الصفوف لعرض المزيد من الصفوف.

```
SELECT *
FROM ORDER_ITEM
```

Results | Explain | Describe | Saved SQL | History

ORDER_ID	ITEMNO
09871	12341
09872	12342
09873	12343
09874	12344
09875	12345
09876	12346
09877	12347
09879	12349
09875	12345
09878	12348

يتوفر أكثر من 10 من الصفوف. قم بزيادة محدد الصفوف لعرض المزيد من الصفوف.

```
SELECT *
FROM QUANTITY
```

Results | Explain | Describe | Saved SQL | History

PRESCRIPTIONID	MED_NAME
12121212	AFFOO
16161616	REFFOO
18181818	VFFOO
13131313	BEFFOO
73737373	DEFFOO
15151515	EFFOO
35353535	YFFOO
14141414	CEFFOO
17171717	UFFOO
19191919	XFFOO

يتوفر أكثر من 10 من الصفوف. قم بزيادة محدد الصفوف لعرض المزيد من الصفوف.

```
SELECT *
FROM ORDER_PRESCRIPTION
```

Results | Explain | Describe | Saved SQL | History

ORDER_ID	PRESCRIPTIONID
09871	12121212
09876	17171717
09875	16161616
09870	35353535
09872	13131313
09873	14141414
09874	15151515
09877	18181818
09878	19191919
09879	73737373

Phase 5

Insert, Update, Delete and Simple Queries:

PHARMACY Queries

Display Query:

```
1   SELECT PHARNAME,PHARM_LOCATION
2   FROM    PHARMACY
3   ORDER BY  PHARNAME ASC
```

Results | Explain | Describe | Saved SQL | History

PHARNAME	PHARM_LOCATION
AHMAD	ALNAKHEL
Alhabeb0	online
Alhabeb0	online
Alhabeb0	online
Alhabeb0	online
Alhabeb0	online
Alhabeb1	online
Alhabeb1	online
Alhabeb1	online

Insert Query:

```
1   INSERT INTO PHARMACY VALUES ('AHMAD','ALNAKHEL')
2
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) inserted.
```

0.01 ثوان

Update Querie:

```
1   UPDATE PHARMACY
2   SET PHARM_LOCATION ='ALMALAZ'
3   WHERE PHARNAME ='AHMAD'
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) updated.
```

Delete Query:

```
1   DELETE FROM PHARMACY
2   WHERE PHARNAME ='AHMAD'
```

Results | Explain | Describe | Saved SQL | History

```
0 row(s) deleted.
```

PRESCRIPTION Table Queries

Display Query:

```
1   SELECT DOCNAME, PATNAME ,MEDNAME
2   FROM PRESCRIPTION
3   ORDER BY DOCNAME DESC
```

Results | Explain | Describe | Saved SQL | History

DOCNAME	PATNAME	MEDNAME
zz35353535	HALA	MEEFOO
z73737373	HEESA	ZEEFOO
d19191919	REEMA	JEEFOO
d18181818	NOUF	OEEFOO
35353535	HEESA	MEEFOO
17171717	MAHA	FEEFOO
16161616	NOUF	GEFOO
15151515	NASEER	DEFOO
14141414	MARAM	AEFOO

Insert Query:

```
1   INSERT INTO PRESCRIPTION VALUES ('332132','SAMAR','SDOC','SAAD')
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) inserted.
```

Update Querie:

```
1   UPDATE PRESCRIPTION
2   SET PRESCRIPTIONID ='SHAHAD'
3   WHERE DOCNAME = '13131313'
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) updated.

0.02 ثوان
```

Delete Query:

```
1   DELETE FROM PRESCRIPTION
2   WHERE DOCNAME ='332132'
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) deleted.
```

MEDICEN Table Queries

Display Query:

```
1  SELECT PHARMA_COM ,MED_NAME
2  FROM MEDICEN
3  ORDER BY MED_NAME DESC
```

Results | Explain | Describe | Saved SQL | History

PHARMA_COM	MED_NAME
F6	ZEFO6
V	ZEFO
A	YFFOO
A	XFFOO
A	VFFOO
A	VEFO
A	UFFOO
A	TEFO
D4	SOLPADEEN4

Insert query:

```
1  INSERT INTO MEDICEN VALUES('S','COLON')
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) inserted.
```

Update query:

```
1  UPDATE MEDICEN
2  SET PHARMA_COM ='EE'
3  WHERE MED_NAME ='COLON'
```

Results | Explain | Describe | Saved SQL | History

```
0 row(s) updated.
```

Delete Querie:

```
1
2  DELETE FROM MEDICEN
3  WHERE MED_NAME ='PANADOL'
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) deleted.

0.01 ثواني
```

ITEM Table Queries

Display Query:

```
1  SELECT ITEMNO ,ITEM_TYPE, ITEM_DESCRIPTION ,PRICE
2  FROM ITEM
3  ORDER BY PRICE
```

Results | Explain | Describe | Saved SQL | History

ITEMNO	ITEM_TYPE	ITEM_DESCRIPTION	PRICE
111aaa	skincare	helth	10
111aaa	skincare	helth	10
111aaa	skincare	helth	10
555nnn	helthcare	helth	11
555nnn	helthcare	helth	11
555nnn	helthcare	helth	11

Insert query:

```
1  INSERT INTO ITEM VALUES('122CSC','helth','-2022','3557','skincare','33')
2
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) inserted.

0.00 ثواني
```

Update query:

```
1  UPDATE ITEM
2  SET ITEM_TYPE='skincare'
3  WHERE ITEMNO ='122CSC'
4
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) updated.

0.01 ثواني
```

Delete Query:

```
1  DELETE FROM ITEM
2  WHERE ITEMNO ='122CSC'
3
```

Results | Explain | Describe | Saved SQL | History

```
1 row(s) deleted.

0.01 ثواني
```