Medical Store Mangement System

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Submitted to:

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BSCS-20-C

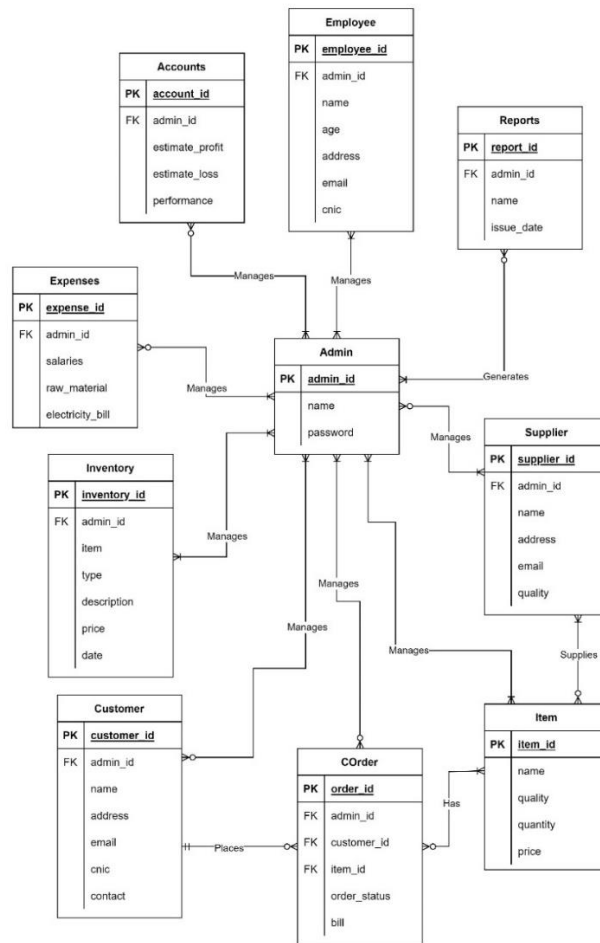**Department of Computer Science**

Introduction

Butt pharmacy is a real business which is currently operational in Gujrat. Employee management, stock availability, sales and purchases, supplier records, and order management are just a few of the manual organizational operations that are controlled by various people. Because these actions are managed through paper, there is no special means to maintain and retain the record of these activities for the future.

Admin or Users will be able to register and login to the system in order to manage all operations inside the business using the proposed system. It eliminates manual work and improves management and business report generating efficiency. It will save a significant amount of people, time, and improve job accuracy. Our system is used to online store, access, and manage employee information, inventory, report creation, and stock availability etc. In comparison to existing systems, our proposed system will be much more accurate, reliable, and user-friendly.

In the Database design of the Medical Store Management System, the tables for the entities of the system are created. The entities are taken from the understanding of the project through the understood requirements from the System Requirements Specification (SRS) document of Software Engineering. The requirements were taken from the client (business owner) on the basis. The Database design is very necessary for the storing of the data and retrieving the data for the useful purposes.

The first step in the creation of the database is to design an Entity Relation Diagram (ERD). The ERD gives a quick idea of how the database is going to look like. It gives a schema of the linking of the database.

Entity Relation Diagram

Database Creation

Query to create and use database:

```
create database Medical_Store;
use Medical_Store;
```

Tables

Admin
Create table query:

```
create table Admin(
admin_id int not null primary key,
name varchar(20),
password varchar(20)
);
```

Table data using select query:

```
select * from Admin;
```

Results:

	admin_id	name	password
1	1001	James Hoog	qwerty
2	1002	Nail Knite	SanJoe
3	1003	Pit Alex	RomeParis

Customer

Create table query:

```
create table Customer(
customer_id int not null primary key,
admin_id int foreign key references Admin(admin_id),
name varchar(40),
address varchar(200),
email varchar(200),
cnic varchar(30),
contact varchar(30)
);
```

Table data using select query:

```
select * from Customer;
```

Results:

	customer_id	admin_id	name	address	email	cnic	contact
1	1	1003	Hedwiga Boeck	2469 Hudson Way	hboeck0@goo.ne.jp	517-60-2394	855-333-8849
2	2	1002	Portia Slinn	47317 Orin Hill	pslinn1@hud.gov	376-69-1535	729-470-4063
3	3	1002	Isidora Sabie	32 Westridge Terrace	isabie2@macromedia.com	528-74-7007	441-463-3862
4	4	1001	Sergio MacAindreis	65119 Oneill Drive	smacaindreis3@sourceforge.net	252-82-6112	885-959-8981
5	5	1001	Cesaro Grent	714 Grasskamp Crossing	cgrent4@1und1.de	740-80-6008	971-605-8951
6	6	1003	Hana Mc Queen	53 Garrison Way	hmc5@cnet.com	555-07-5650	415-484-0566
7	7	1001	Moyna Kuhlen	3 Sage Crossing	mkuhlen6@yandex.ru	312-29-5138	895-317-3044
8	8	1001	Lexine Gaukrodge	31566 Jana Circle	lgaukrodge7@joomla.org	832-26-8071	437-939-1530
9	9	1002	Ophelie Waliszek	3573 Raven Lane	owaliszek8@pinterest.com	445-37-5813	295-105-0367
10	10	1003	Ewan Bourley	58 Sage Point	ebourley9@mediafire.com	138-67-3036	855-556-0239
11	11	1003	Yorgos Waudby	0 Gerald Center	ywaudbya@altervista.org	419-67-0733	240-916-4685
12	12	1001	Farleigh Kilner	37 Fair Oaks Drive	fkilnerb@amazonaws.com	464-63-3785	456-881-4336
13	13	1002	Earvin Puckrin	833 Homewood Way	epuckrinc@yandex.ru	757-70-1743	443-531-8985
14	14	1003	Datha Girardet	95790 Fisk Alley	dgirardetd@aol.com	307-72-2602	898-213-6635
15	15	1003	Donnamarie Suggate	94 Norway Maple Drive	dsuggatee@issuu.com	332-51-5861	886-237-2952
16	16	1002	Mal Brunnen	04 Sutteridge Plaza	mbrunnenf@globo.com	201-07-0005	999-807-9590
17	17	1002	Brigitta Halesworth	597 Schmedeman Cros...	bhalesworthg@privacy.gov.au	571-71-2342	286-899-8995
18	18	1003	Jeremy Flucker	92 Sachs Crossing	jfluckerh@woothemes.com	260-29-4636	138-859-6801
19	19	1002	Geri Maddigan	1 Dorton Road	gmaddigani@un.org	429-46-6650	367-391-9951

Item

Create table query:

```
create table Item(
item_id int not null primary key,
```

```
name varchar(30),
quality varchar(20),
quantity int,
price float
);
```

Table data using select query:

```
select * from Item;
```

Results:

	item_id	name	quality	quantity	price
1	1	Curly Dock	in	25	579.12
2	2	WITCH HAZEL	mauris	30	964.83
3	3	CEFPROZIL	ante	3	943.42
4	4	Doxapram hydrochloride	mauris	80	552
5	5	Oxcarbazepine	mi	75	369.92
6	7	Ibuprofen	at	45	379.36
7	8	Aspirin, Caffeine	quam	69	218.12
8	9	NITROGEN	sagittis	38	94.01
9	10	iothalamate meglumine	lacinia	68	542.14
10	11	Naproxen sodium	tempus	43	342.35
11	12	Benzoyl Peroxide	venenatis	91	53.9
12	13	SERTRALINE HYDROCHLORIDE	velit	44	370.41
13	14	Metoprolol succinate	in	65	954.58
14	15	Metoprolol Tartrate	nullam	55	145.83

COrder

Create table query:

```
create table COrder(
order_id int not null primary key,
customer_id int foreign key references Customer(customer_id),
item_id int foreign key references Item(item_id),
admin_id int foreign key references Admin(admin_id),
order_status varchar(20),
bill float
);
```

Table data using select query:

```
select * from COrder;
```

Results:

	order_id	customer_id	item_id	admin_id	order_status	bill
1	1	475	382	1002	pending	301.67
2	2	863	987	1003	completed	832.39
3	3	840	795	1003	completed	326.14
4	4	237	414	1001	completed	912.5
5	5	516	12	1002	pending	740.23
6	7	881	113	1002	completed	132.76
7	9	653	120	1003	completed	172.07
8	12	715	30	1002	completed	148.76
9	13	387	699	1001	completed	264.55
10	14	678	557	1001	completed	645.77
11	15	683	289	1002	completed	378.17
12	16	229	678	1003	completed	196.55
13	17	418	884	1001	completed	737.3
14	19	852	357	1003	pending	70.09
15	22	559	837	1001	completed	362.23

Employee

Create table query:

```
create table Employee(
employee_id int not null primary key,
admin_id int foreign key references Admin(admin_id),
name varchar(40),
age int,
address varchar(200),
email varchar(200),
cnic varchar(30)
);
```

Table data using select query:

```
select * from Employee;
```

Results:

	employee_id	admin_id	name	age	address	email	cnic
1	1	1001	Gannon Lovejoy	49	8 Moland Pass	glovejoy0@apple.com	376-06-1467
2	2	1003	Hashim Sheddan	44	7 Forest Crossing	hsheddan1@delicious.com	610-17-2428
3	3	1002	Tris Tryhorn	48	40 Oriole Court	ttryhorn2@gravatar.com	269-76-7702
4	4	1003	Perri Grundon	55	55 Transport Circle	pgrundon3@digg.com	808-49-9389
5	5	1002	Emera Petrosian	42	05 Northfield Pass	epetrosian4@macromedia.com	426-56-3779
6	6	1003	Jewelle Leathers	41	04 Drewry Hill	jleathers5@bloglovin.com	609-09-0332
7	7	1001	Vevay Faint	62	8 Mosinee Center	vfaint6@github.com	695-52-7198
8	8	1002	Eugen Matignon	62	60391 Michigan Lane	ematignon7@hud.gov	253-69-3119
9	9	1003	Zachary Brocking	24	946 Westerfield Junction	zbrocking8@wordpress.com	438-67-6669
10	10	1003	Des Allden	27	33351 Bonner Road	dallden9@virginia.edu	750-73-4933
11	11	1001	Evania Jurgensen	62	5 Iowa Way	ejurgensena@prweb.com	219-65-6104
12	12	1003	Dex Lum	35	7 Alpine Center	dlumb@accuweather.com	166-05-2016
13	13	1003	Reamonn Jepp...	18	37557 Bellgrove Place	rjeppensenc@chron.com	353-77-6942
14	14	1001	Elberta Regler	39	0 4th Parkway	ereglerd@fotki.com	877-82-2767
15	15	1002	Sonny Drillingco...	74	21 Hoffman Park	sdrillingcourte@wix.com	348-73-4068

Report

Create table query:

```
create table Report(
report_id int not null primary key,
```

```
admin_id int foreign key references Admin(admin_id),
name varchar(30),
issue_date varchar(20)
);
```

Table data using select query:

```
select * from Report;
```

Results:

	report_id	admin_id	name	issue_date
1	1	1001	sales	12/13/2021
2	2	1001	purchases	11/17/2021
3	3	1001	e-bill	10/28/2021
4	4	1003	e-bill	6/30/2022
5	5	1003	sales	11/24/2021
6	6	1003	purchases	10/31/2021
7	7	1001	salary	6/4/2022
8	8	1002	purchases	11/15/2021
9	9	1002	sales	2/4/2022
10	10	1001	e-bill	3/1/2022
11	11	1002	purchases	9/3/2021
12	12	1002	sales	6/29/2022
13	13	1003	purchases	10/20/2021
14	14	1001	purchases	11/14/2021
15	15	1002	miscella...	12/12/2021

Accounts

Create table query:

```
create table Accounts(
account_id int not null primary key,
admin_id int foreign key references Admin(admin_id),
estimate_profit int,
estimate_loss int,
performance varchar(20)
);
```

Table data using select query:

```
select * from Accounts;
```

Results:

	account_id	admin_id	estimate_profit	estimate_loss	performance
1	1	1001	9711	1034	bad
2	2	1003	7405	9838	nill
3	3	1001	2511	3535	best
4	4	1001	4000	5919	nill
5	5	1002	8664	8957	good
6	6	1003	9682	2130	nill
7	7	1002	2105	9938	bad
8	8	1001	9814	10000	best
9	9	1001	1597	1757	good
10	10	1001	5109	9644	nill
11	11	1003	2877	6152	nill
12	12	1002	3588	1026	bad
13	13	1002	4113	6097	bad
14	14	1001	2008	3082	good
15	15	1003	8615	3138	nill

Supplier

Create table query:

```
create table Supplier(
supplier_id int not null primary key,
admin_id int foreign key references Admin(admin_id),
name varchar(30),
address varchar(200),
email varchar(200),
quality varchar(20)
);
```

Table data using select query:

```
select * from Supplier;
```

Results:

	supplier_id	admin_id	name	address	email	quality
1	1	1001	Malissa Francis	94055 Crownhardt Trail	mfrancis0@adobe.com	best
2	2	1001	Bartolemo Lansly	92 Moose Terrace	blansly1@icq.com	good
3	3	1002	Renae Sheers	5578 American Court	rsheers2@free.fr	best
4	4	1001	Rory Degg	88 Lien Terrace	rdegg3@discuz.net	good
5	5	1003	Sacha Fleeman	219 Thierer Crossing	sfleeman4@sogou.com	bad
6	6	1002	Jacquenetta Trumper	599 Hanson Terrace	jtrumper5@yellowbook.com	good
7	7	1001	Osgood Whereat	3 Debra Trail	owhereat6@facebook.com	good
8	8	1003	Larine Loweth	481 Shelley Drive	lloweth7@rambler.ru	nill
9	9	1002	Jasper Rockhall	2837 Havey Park	jrockhall8@nydailynews.c...	nill
10	10	1001	Olympie Edinburgh	68 Hallows Avenue	oedinburgh9@fotki.com	best
11	11	1001	Rudie Sims	8 Mallard Junction	rsimsa@oaic.gov.au	bad
12	12	1003	Kimberlee Blaszczy...	21549 Elmside Park	kblaszczynskib@bloglines...	good
13	13	1003	Wiatt Penni	8 Nobel Terrace	wpennic@blogtalkradio.co...	nill
14	14	1002	Haley Ciobotaro	578 Cody Place	hciobotarod@economist.c...	bad
15	15	1001	Danella Tieraney	36 Dennis Circle	dtieraneye@google.cn	nill

Inventory

Create table query:

```
create table Inventory(
inventory_id int not null primary key,
admin_id int foreign key references Admin(admin_id),
item varchar(30),
type varchar(30),
```

```
description varchar(200),
price float,
date varchar(20)
);
```

Table data using select query:

```
select * from Inventory;
```

Results:

	inventory_id	admin_id	item	type	description	price	date
1	1	1003	Oxygen	external	eu orci mauris lacinia	749.1	5/1/2022
2	2	1001	Amitriptyline Hydrochloride	internal	morbi porttitor lorem id	300.07	9/18/2021
3	3	1002	Prednisolone	internal	sollicitudin ut suscipit a	730.24	7/8/2022
4	4	1001	Famotidine	internal	in quis justo maecenas rhoncus	307.52	8/26/2021
5	5	1002	equate nicotine	external	nibh fusce lacus	492.11	4/27/2022
6	6	1002	Good Sense Miconazole 7	internal	vestibulum ante ipsum primis in	462.89	8/31/2021
7	8	1001	Extreme GH	external	sapien sapien	467.1	9/27/2021
8	9	1001	Shagbark Hickory Pollen	external	tristique est et tempus semper	203.08	7/18/2022
9	10	1001	Sulindac	internal	ligula pellentesque	968.03	6/1/2022
10	11	1002	Zosyn	internal	eleifend luctus ultricies	162.45	3/17/2022
11	13	1003	Pramipexole dihydrochlo...	internal	quam nec dui	474.28	6/3/2022
12	14	1003	Pain Reliever PM	external	massa volutpat convallis	342.04	11/15/2...
13	15	1002	Aspergillus flavus	external	dictumst maecenas ut massa ...	631.92	7/20/2022
14	16	1001	Doxorubicin Hydrochloride	external	donec diam	997.35	3/30/2022
15	17	1003	Wheat Bunt	external	mi integer ac neque	610.25	7/26/2022

Expenses

Create table query:

```
create table Expenses(
expense_id int not null primary key,
admin_id int foreign key references Admin(admin_id),
salaries int,
raw_material int,
electricity_bill int
);
```

Table data using select query:

```
select * from Expenses;
```

Results:

	expense_id	admin_id	salaries	raw_material	electricity_bill
1	1	1003	1865	5280	3110
2	2	1002	6860	1980	1881
3	3	1003	7958	11877	4029
4	4	1003	6726	11653	2669
5	5	1001	6586	5624	817
6	6	1002	6469	10938	1038
7	7	1003	2546	8838	4304
8	8	1002	6981	2890	1809
9	9	1001	4502	1953	1479
10	10	1001	2720	1564	28
11	11	1002	2301	4068	3829
12	12	1003	4859	3626	2183
13	13	1001	5311	14972	1400
14	14	1002	3734	12055	4329
15	15	1003	6447	1315	2451
16	16	1001	7457	3138	3932

Select Queries

Order, Item and Customer

Select query:

```
select COrder.order_id, Item.item_id, Customer.customer_id, Customer.name,
order_status
from COrder
join Customer on COrder.customer_id = Customer.customer_id
join Item on Item.item_id = COrder.item_id order by order_id;
```

Results:

	order_id	item_id	customer_id	name	order_status
1	1	382	475	Francis Dowry	pending
2	2	987	863	Greg Mulran	completed
3	3	795	840	Goldy Mathelon	completed
4	4	414	237	Paulie Niessen	completed
5	5	12	516	Violette Gero	pending
6	7	113	881	Otis Twelvetree	completed
7	9	120	653	Pernell McGenis	completed
8	12	30	715	Atlanta Larby	completed
9	13	699	387	Ruthe Crat	completed
10	14	557	678	Virginie Hearsey	completed
11	15	289	683	Tyne Messam	completed
12	16	678	229	Aubrey Blackall	completed
13	17	884	418	Kleon Plak	completed
14	19	357	852	Melisandra Go...	pending
15	22	837	559	Kenon Jepson	completed

Item and Order

Select query:

```
select order_id, name, price as unit_price, order_status
```

```
from COrder
join Item
on COrder.item_id = Item.item_id;
```

Results:

	order_id	name	unit_price	order_status
1	953	Curly Dock	579.12	completed
2	638	Oxcarbazepine	369.92	completed
3	663	Ibuprofen	379.36	completed
4	699	Ibuprofen	379.36	pending
5	755	Ibuprofen	379.36	completed
6	301	Ibuprofen	379.36	completed
7	391	Ibuprofen	379.36	completed
8	98	Aspirin, Caffeine	218.12	pending
9	472	Aspirin, Caffeine	218.12	completed
10	262	Naproxen sodium	342.35	pending
11	282	Benzoyl Peroxide	53.9	completed
12	5	Benzoyl Peroxide	53.9	pending
13	480	Benzoyl Peroxide	53.9	pending
14	415	Benzoyl Peroxide	53.9	pending
15	759	Metoprolol succinate	954.58	pending

Admin and Reports

Select query:

```
select Admin.admin_id, report_id, report.name, issue_date
from Report
join Admin
on Admin.admin_id = Report.admin_id;
```

Results:

	admin_id	report_id	name	issue_date
1	1001	1	sales	12/13/2021
2	1001	2	purchases	11/17/2021
3	1001	3	e-bill	10/28/2021
4	1003	4	e-bill	6/30/2022
5	1003	5	sales	11/24/2021
6	1003	6	purchases	10/31/2021
7	1001	7	salary	6/4/2022
8	1002	8	purchases	11/15/2021
9	1002	9	sales	2/4/2022
10	1001	10	e-bill	3/1/2022
11	1002	11	purchases	9/3/2021
12	1002	12	sales	6/29/2022
13	1003	13	purchases	10/20/2021
14	1001	14	purchases	11/14/2021
15	1002	15	miscella...	12/12/2021

Customer and Order

Select query:

```
select Customer.customer_id, name, address, order_id, item_id, order_status
from Customer
join COrder
on COrder.customer_id = COrder.customer_id;
```

Results:

	customer_id	name	address	order_id	item_id	order_status
1	1	Hedwiga Boeck	2469 Hudson Way	1	382	pending
2	2	Portia Slinn	47317 Orin Hill	1	382	pending
3	3	Isidora Sabie	32 Westridge Terrace	1	382	pending
4	4	Sergio MacAindreis	65119 Oneill Drive	1	382	pending
5	5	Cesaro Grent	714 Grasskamp Crossing	1	382	pending
6	6	Hana Mc Queen	53 Garrison Way	1	382	pending
7	7	Moyna Kuhlen	3 Sage Crossing	1	382	pending
8	8	Lexine Gaukrodge	31566 Jana Circle	1	382	pending
9	9	Ophelie Waliszek	3573 Raven Lane	1	382	pending
10	10	Ewan Bourley	58 Sage Point	1	382	pending
11	11	Yorgos Waudby	0 Gerald Center	1	382	pending
12	12	Farleigh Kilner	37 Fair Oaks Drive	1	382	pending
13	13	Earvin Puckrin	833 Homewood Way	1	382	pending
14	14	Datha Girardet	95790 Fisk Alley	1	382	pending
15	15	Donnamarie Sug...	94 Norway Maple Drive	1	382	pending

Database Diagram

Item
- 🔑 item_id
- name
- quality
- quantity
- price

COrder
- 🔑 order_id
- customer_id
- item_id
- admin_id
- order_status
- bill

Expenses
- 🔑 expense_id
- admin_id
- salaries
- raw_material
- electricity_bill

Customer
- 🔑 customer_id
- admin_id
- name
- address
- email
- cnic
- contact

Inventory
- 🔑 inventory_id
- admin_id
- item
- type
- description
- price
- date

Supplier
- 🔑 supplier_id
- admin_id
- name
- address
- email
- quality

Admin
- 🔑 admin_id
- name
- password

Employee
- 🔑 employee_id
- admin_id
- name
- age
- address
- email
- cnic

Report
- 🔑 report_id
- admin_id
- name
- issue_date

Accounts
- 🔑 account_id
- admin_id
- estimate_profit
- estimate_loss
- performance