جامعة الحسين التقنية
Al Hussein Technical University

DATABASE DESIGN & DEVELOPMENT

Name: Mahmoud Rumaneh

ID: 20120103

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INTRODUCTION

I work for a large company as an IT database developer and I have been asked to renew TickTeach Inc's database system and provide the technology needed to operate the system and investigate the requirements of the system, so I have to design, create and implement the system, the documents required to make the database are that it is a company specialized in dental clinics to arrange the database for them and all clinics within this company have the same key data information and there is no correlation or relationship between any dental clinic and another clinic in the company**.**

SCENARIO

This company has many clinics, patients and doctors and this **company** has name, address (city, street name and building number), phone, email and offices. This company has many staffs and each **staff** has: name (first name and last name), Id, email, phones and type of work. Each **clinic** has name, address (city, street name and building number), contact number. Each clinic has one doctor and one secretary but the doctor and the secretary can work in more than one clinic, and each doctor can take care of more than one patient and the patient can to go on more than one doctor and one secretary, the database keeps each **doctor**'s information including: name (first name and last name), address (city and street name), communication phone, area of specialization and Id. **Patient** information is also maintained by the database system such as: name (first name, second name and last name), address (city, street name and building number), date of birth, age, national number. Each patient has **appointments** in: date, day, time and Id. Each patient has prescriptions was written by the doctor, the doctor can write more than one prescription and each **prescription** has: Id, amount of medicine and diagnoses, each prescription has many medicines, each medicine can be in more than one prescription and it has amount of dose and each **medicine** has: name and Id. The patient can schedule and cancel appointments and order prescription through the clinic's contact number by secretary and the secretary can schedule and cancel more than one appointment. The **secretary** has information such as: name (first name and last name), national number, academic specialization and experience.

USER GROUPS & BUSINESS NEEDS:

1. Staff: Seeing and solving the technical problems in the system in all clinics, seeing the information of the medicines for each clinic and the number of it, taking over the affairs of employees in terms of working hours and editing for their personal information and so on

2. Secretary: Booking appointments and adding patient's information to the system

3. Doctor: Read the patient's medical history and the date of his visits to the clinic to see the surgeries or procedures he has performed in the past, so that the doctor avoids any things that may negatively affect the patient's health

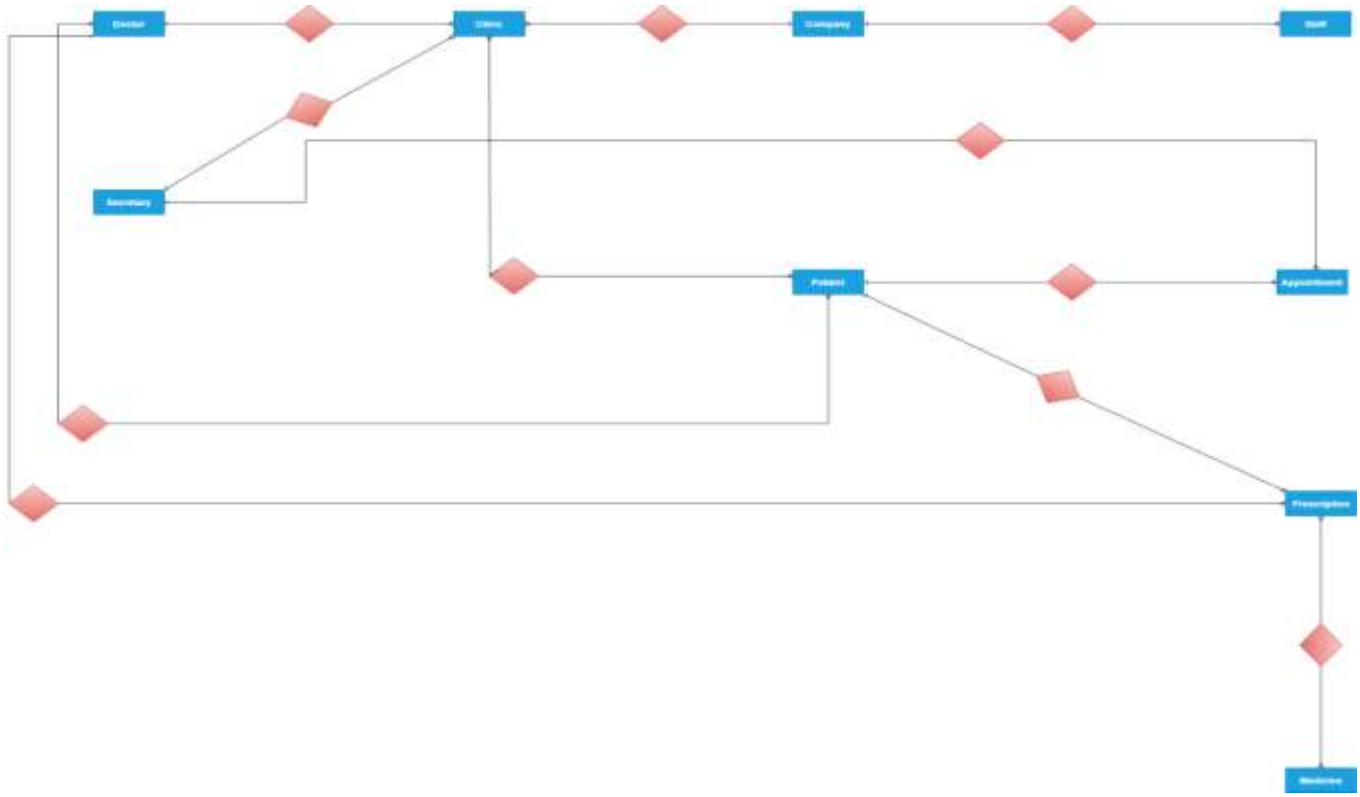
4. Patient: See his upcoming and previous appointment information, his medical history and the medications he should take through the prescription

5. Manager of the clinic: See the weekdays with the highest number of appointments so that he takes some decisions about the number of doctors in the same clinic and organize their working hours

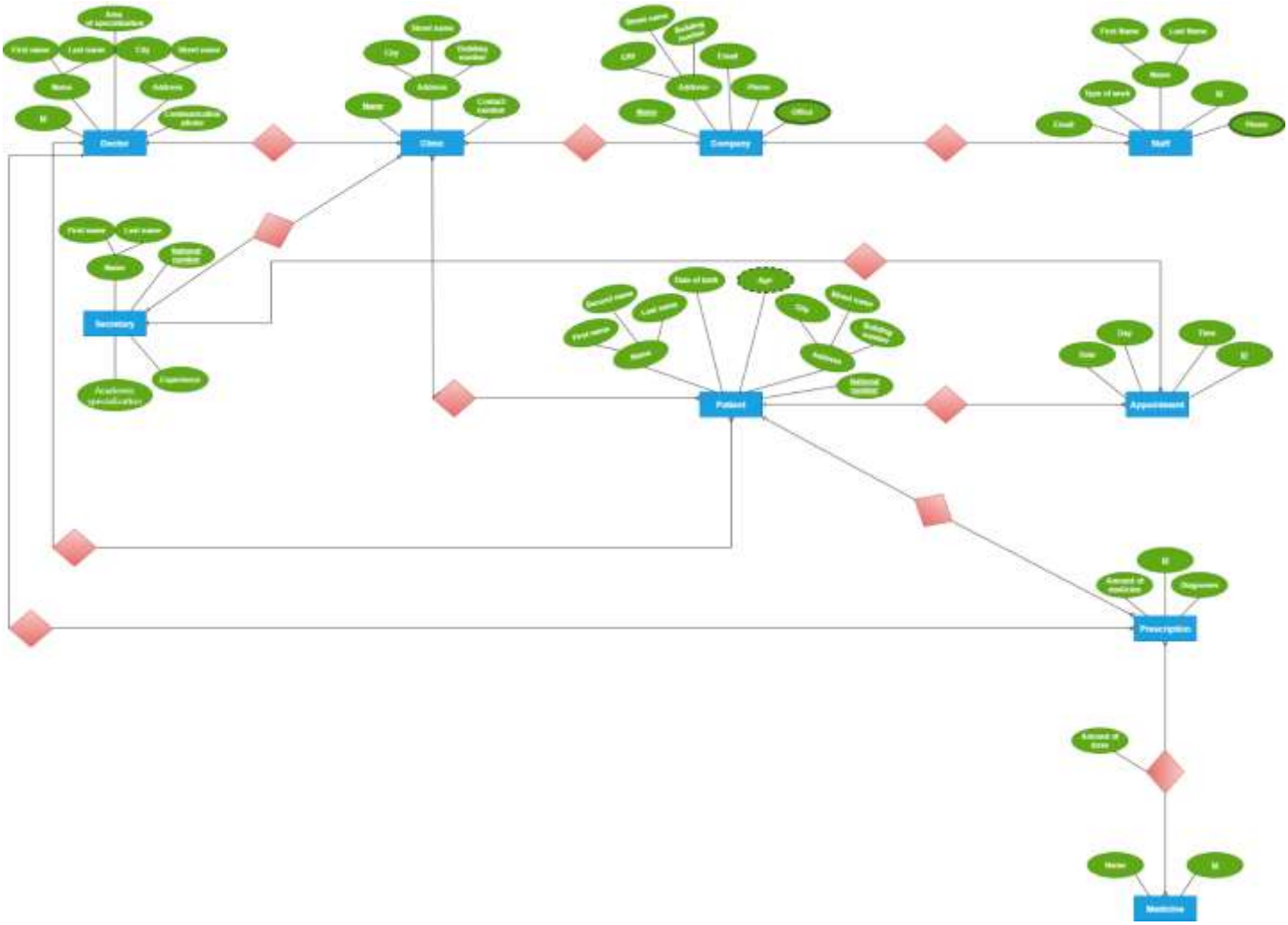
6. Manager of the company: See the information of all clinics within the company and the employees who work within this company in terms of the most visited clinics by patients and the information of each clinic in terms of real estate, location, licenses, tax, and periodic maintenance of it

ERD

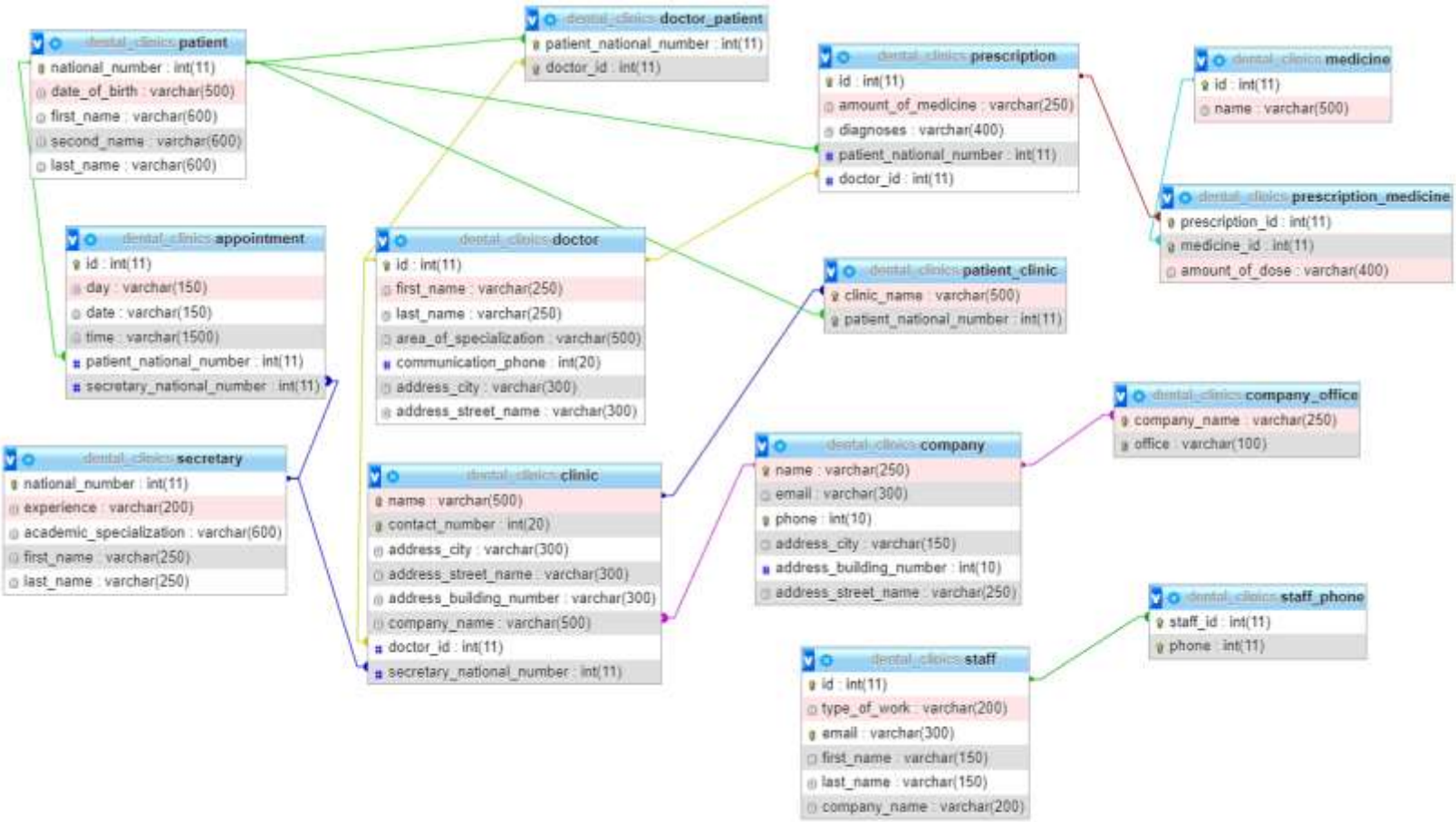
CONCEPTUAL



LOGICAL


Doctor
Clinic
Company
Staff
Secretary
Patient
Appointment
Prescription
Medicine

PHYSICAL



MAPPING

Company: (Name, Email, Phone, Address_City, Address_Building_Number, Address_Street_Name)

Company_Office: (Company_Name, Office)

Staff: (Id, Type_of_work, Email, First_Name, Last_Name, Company_Name)

Staff_Phone: (Staff_Id, Phone)

Patient: (National_Number, Date_of_birth, First_Name, Second_Name, Last_Name)

Doctor: (Id, Area_of_Specialization, Communication_Phone, Frist_Name, Last_Name, Address_City, Address_Street_Name)

Doctor_Patient: (Patient_National_Number, Doctor_Id)

Prescription: (Id, Amount_of_medicine, Diagnoses, Patient_National_Number, Doctor_Id)

Medicine: (Id, Name)

Prescription_Medicine: (Prescription_Id, Medicine_Id, Amount_of_dose)

Secretary: (National_Number, Experience, Academic_Specialization, First_Name, Last_Name)

Clinic: (Name, Contact_Number, Address_City, Address_Street_Name, Address_Building_Number, Company_Name, Doctor_Id, Secretary_National_Number)

Patient_Clinic: (Clinic_Name, Patient_National_Number)

Appointment: (Id, Day, Date, Time, Patient_National_Number, Secretary_National_Number)

NORMALIZATION

FIRST NORMAL FORM

In the staff table I used the first normal form and the table was that: staff (Id, Type_of_work, Email, First_Name, Last_Name, Company_Name, phones)

Because there are a lot of members have more than one phone number and the phone attribute are a multivalued attribute, so in one table of-course there is redundant data and it wastes disk space and creates maintenance problems, so I made two tables, the first is:

Staff (Id, Type_of_work, Email, First_Name, Last_Name, Company_Name)

And the second table is: Staff_Phone (Staff_Id, Phone)

SECOND NORMAL FORM

I used the second normal form in the doctor and patient tables and that was: (Patient_National_Number, Patient_Date_of_birth, Patient_First_Name, Patient_Second_Name, Patient_Last_Name, Doctor_Id, Doctor_Area_of_Specialization, Doctor_Communication_Phone, Doctor_Frist_Name, Doctor_Last_Name, Doctor_Address_City, Doctor_Address_Street_Name)

There is a partial dependency in this table and to remove it I broke the relation into more than one table like this:

(Patient_National_Number, Patient_Date_of_birth, Patient_First_Name, Patient_Second_Name, Patient_Last_Name)

(Doctor_Id, Doctor_Area_of_Specialization, Doctor_Communication_Phone, Doctor_Frist_Name, Doctor_Last_Name, Doctor_Address_City, Doctor_Address_Street_Name)

(Patient_National_Number, Doctor_Id)

CREATE DATABASE AND TABLES

1. Doctor table

+ Options

	id	first_name	last_name	area_of_specialization	communication_phone	address_city	address_street_name
Edit Copy Delete	1	Abdel Hadi	Al-Aqrabawi	Jaw and dental surgery	5654161	Zarqa	Al-Karameh
Edit Copy Delete	2	Khaled	Al-Rasheed	Jaw and dental surgery	4848962	Irbid	Al-Thaqafeh
Edit Copy Delete	3	Mohammad	Al-Khaldi	Pediatric dentistry and orthodontics	79546132	Amman	Wasfi Altal
Edit Copy Delete	4	Bahaa	Abdallat	Pediatric dentistry and orthodontics	78543059	Zarqa	36 street
Edit Copy Delete	5	Mahmoud	Odeh	Jaw and dental surgery	77554354	Amman	Al-Rainbow

```
INSERT INTO doctor (id, area_of_specialization, communication_phone, first_name, last_name,
address_city, address_street_name)
VALUES (1, 'Jaw and dental surgery', 05654161, 'Abdel Hadi', 'Al-Aqrabawi', 'Zarqa', 'Al-
Karameh'),
(2, 'Jaw and dental surgery', 04848962, 'Khaled', 'Al-Rasheed', 'Irbid', 'Al-Thaqafeh'),
(3, 'Pediatric dentistry and orthodontics', 079546132, 'Mohammad', 'Al-Khaldi', 'Amman', 'Wasfi
Altal'),
(4, 'Pediatric dentistry and orthodontics', 078543059, 'Bahaa', 'Abdallat', 'Zarqa', '36
street'),
(5, 'Jaw and dental surgery', 077554354, 'Mahmoud', 'Odeh', 'Amman', 'Al-Rainbow');
```

2. Doctor_Patient table

```
INSERT INTO doctor_patient (patient_national_number, doctor_id)
VALUES(1951635, 2),
(2005661, 2),
(1561785,3),
(1616586,5),
(4945882,1),
(2044979,4);
```

3. Prescription table

Show query box

✔ 16 rows inserted. (Query took 0.0066 seconds.)

```
INSERT INTO prescription( id, amount_of_medicine, diagnoses, patient_national_number, doctor_id ) VALUES (2, '20 capsules of Lincodar', 'two
capsules after eating, three times by day', 1561785, 3), (3, '15 needles of B12 vitamin', '1 needle everyday', 1616586, 5), (4, '30 tablets of
Analarg', 'one tablet before eating, three times by day', 1616586, 5), (5, '15 tablets of Cromaldol', 'one tablet after eating, if necessary',
1616586, 5), (6, '16 tablets of Cetamol', 'one tablet after eating, three times by day', 1616586, 5), (7, '30 tablets of Cetamol', 'one tablet after
eating, three times by day', 1951635, 2), (8, '20 tablets of Panadol', 'one tablet after eating, three times by day', 1951635, 2), (9, '16 capsules
of Lincodar', 'two capsule after eating, three times by day', 1951635, 2), (10,[...]
```

[Edit]

+ Options

	id	amount_of_medicine	diagnoses	patient_national_number	doctor_id
Edit Copy Delete	1	30 tablets	Inflammation	1561785	3
Edit Copy Delete	2	20 capsules	Inflammation	1561785	3
Edit Copy Delete	3	15 needles	Vitamin B12 deficiency	1616586	5
Edit Copy Delete	4	30 tablets	Take off a tooth	1616586	5
Edit Copy Delete	5	15 tablets	Inflammation	1616586	5
Edit Copy Delete	6	16 tablets	Tooth decay	1616586	5
Edit Copy Delete	7	30 tablets	Tooth decay	1951635	2
Edit Copy Delete	8	20 tablets	Inflammation	1951635	2
Edit Copy Delete	9	16 capsules	Inflammation	1951635	2
Edit Copy Delete	10	20 capsules	Gum ulceration	1951635	2
Edit Copy Delete	11	16 capsules	Gum ulceration	2005661	2
Edit Copy Delete	12	one box	Gum pain	2005661	2
Edit Copy Delete	13	30 tablets	Gum and head pain	2044979	4
Edit Copy Delete	14	25 tablets of Spirazol	Gum ulceration	2044979	4
Edit Copy Delete	15	25 tablets	Inflammation	4945882	1
Edit Copy Delete	16	20 capsules	Tooth decay	4945882	1
Edit Copy Delete	17	15 needles	Vitamin B12 deficiency	4945882	1

4. Medicine table

✔ 17 rows inserted. (Query took 0.0074 seconds.)

```
INSERT INTO medicine(id, name) VALUES (1, 'Panda'), (2, 'Lincodar'), (3, 'B12 vitamin'), (4, 'Analarg'), (5, 'Cromadol'), (6, 'Cetamol'), (7, 'Cetamol'), (8, 'Panadol'), (9, 'Lincodar'), (10, 'Scensazol'), (11, 'Scensazol'), (12, 'Adol'), (13, 'Adol'), (14, 'Spirazol'), (15, 'Rapidus'), (16, 'Lincodar'), (17, 'B12 vitamin')
```

[Edit inline] [Edit] [Create PHP code]

	id	name
Edit Copy Delete	1	Panda
Edit Copy Delete	2	Lincodar
Edit Copy Delete	3	B12 vitamin
Edit Copy Delete	4	Analarg
Edit Copy Delete	5	Cromadol
Edit Copy Delete	6	Cetamol
Edit Copy Delete	7	Cetamol
Edit Copy Delete	8	Panadol
Edit Copy Delete	9	Lincodar
Edit Copy Delete	10	Scensazol
Edit Copy Delete	11	Scensazol
Edit Copy Delete	12	Adol
Edit Copy Delete	13	Adol
Edit Copy Delete	14	Spirazol
Edit Copy Delete	15	Rapidus
Edit Copy Delete	16	Lincodar
Edit Copy Delete	17	B12 vitamin

5. Prescription_Medicine table

✔ 17 rows inserted. (Query took 0.0073 seconds.)

```
INSERT INTO prescription_medicine (prescription_id, medicine_id, amount_of_dose) VALUES (1,1,'one tablets after eating, three times by day'),
(2,2,'two capsules after eating, three times by day'), (3,3,'one needle everyday'), (4,4,'one tablet before eating, three times by day'), (5,5,'one
tablet after eating, two times by day'), (6,6,'one tablet after eating, if necessary'), (7,7,'one tablet after eating, if necessary'), (8,8,'one
tablet after eating, if necessary'), (9,9,'two capsules after eating, three times by day'), (10,10,'one capsule before eating, once by day'),
(11,11,'one capsule before eating, once by day'), (12,12,'30mm, three times by day'), (13,13,'30mm, Adol'), (14,14,'one tablet before eating, three
times by day'), (15,15,'one tablet before eating, two times by day'), (16,16,'two capsules after eating, three times by day'), (17,17,'one needle
```

[Edit inline] [Edit] [Create PHP code]

	prescription_id	medicine_id	amount_of_dose
Edit Copy Delete	1	1	one tablets after eating, three times by day
Edit Copy Delete	2	2	two capsules after eating, three times by day
Edit Copy Delete	3	3	one needle everyday
Edit Copy Delete	4	4	one tablet before eating, three times by day
Edit Copy Delete	5	5	one tablet after eating, two times by day
Edit Copy Delete	6	6	one tablet after eating, if necessary
Edit Copy Delete	7	7	one tablet after eating, if necessary
Edit Copy Delete	8	8	one tablet after eating, if necessary
Edit Copy Delete	9	9	two capsules after eating, three times by day
Edit Copy Delete	10	10	one capsule before eating, once by day
Edit Copy Delete	11	11	one capsule before eating, once by day
Edit Copy Delete	12	12	30mm, three times by day
Edit Copy Delete	13	13	30mm, Adol
Edit Copy Delete	14	14	one tablet before eating, three times by day
Edit Copy Delete	15	15	one tablet before eating, two times by day
Edit Copy Delete	16	16	two capsules after eating, three times by day
Edit Copy Delete	17	17	one needle everyday

6. Secretary table

✔ 5 rows inserted. (Query took 0.0065 seconds.)

```
INSERT INTO secretary (national_number, experience, academic_specialization, first_name, last_name) VALUES(202165465, 'Three years', 'Buisness
Administration', 'Ali' , 'Khualdeh'), (204984655, 'One year', 'Mechanical Engineering', 'Lara' , 'AbuLawi'), (256461248, 'None', 'Marketing', 'Hazem'
, 'Rashaideh'), (985598952, 'Five years', 'Computer Science', 'Lama' , 'Hmaidat'), (584562055, 'Three years', 'Medical Records', 'Aysheh' , 'Samara')
```

[Edit inline] [Edit] [Create PHP code]

+ Options

	national_number	experience	academic_specialization	first_name	last_name
Edit Copy Delete	202165465	Three years	Buisness Administration	Ali	Khualdeh
Edit Copy Delete	204984655	One year	Mechanical Engineering	Lara	AbuLawi
Edit Copy Delete	256461248	None	Marketing	Hazem	Rashaideh
Edit Copy Delete	985598952	Five years	Computer Science	Lama	Hmaidat
Edit Copy Delete	584562055	Three years	Medical Records	Aysheh	Samara

7. Doctor table

+ Options

	id	first_name	last_name	area_of_specialization	communication_phone	address_city	address_street_name
Edit Copy Delete	1	Abdel Hadi	Al-Aqrabawi	Jaw and dental surgery	5654161	Zarqa	Al-Karameh
Edit Copy Delete	2	Khaled	Al-Rasheed	Jaw and dental surgery	4848962	Irbid	Al-Thaqafeh
Edit Copy Delete	3	Mohammad	Al-Khaldi	Pediatric dentistry and orthodontics	79546132	Amman	Wasfi Altal
Edit Copy Delete	4	Bahaa	Abdallat	Pediatric dentistry and orthodontics	78543059	Zarqa	36 street
Edit Copy Delete	5	Mahmoud	Odeh	Jaw and dental surgery	77554354	Amman	Al-Rainbow

8. Company Table

+ Options

	name	email	phone	address_city	address_building_number	address_street_name
Edit Copy Delete	Eadat_AL-Aqsa	al-aqsa@gmail.com	5484615	Amman	4	Almadenah_street

9. Staff table

+ Options

	id	type_of_work	email	first_name	last_name	company_name
Edit Copy Delete	1	developer	alialqasi@gmail.com	ali	al-qasi	Eadat_Al-Aqsa
Edit Copy Delete	2	developer	mohammadelayyan@gmail.com	mohammad	elayyan	Eadat_Al-Aqsa
Edit Copy Delete	3	security	khaledkhateeb@gmail.com	khaled	khateeb	Eadat_Al-Aqsa
Edit Copy Delete	4	IT support	moathabdallat@gmail.com	moath	abdallat	Eadat_Al-Aqsa
Edit Copy Delete	5	team leader	ahmadalomari@gmail.com	ahmad	al-omari	Eadat_Al-Aqsa
Edit Copy Delete	6	secretary	shahedalzoubi@gmail.com	shahed	al-zoubi	Eadat_Al-Aqsa
Edit Copy Delete	7	personnel affairs	malakalrosan@gmail.com	malak	al-rosan	Eadat_Al-Aqsa
Edit Copy Delete	8	accountant	lailahazem@gmail.com	laila	hazem	Eadat_Al-Aqsa

10. Staff_Phone table

+ Options

	staff_id	phone
Edit Copy Delete	1	77551515
Edit Copy Delete	1	78545111
Edit Copy Delete	1	79551561
Edit Copy Delete	2	77156161
Edit Copy Delete	2	79884123
Edit Copy Delete	3	78157812
Edit Copy Delete	4	79141616
Edit Copy Delete	4	79516516
Edit Copy Delete	5	511318
Edit Copy Delete	5	77113184
Edit Copy Delete	6	77651654
Edit Copy Delete	6	78412335
Edit Copy Delete	7	79465116
Edit Copy Delete	8	78400410

11. Patient table

+ Options

←T→	national_number	date_of_birth	first_name	second_name	last_name
Edit Copy Delete	1951635	17/5/1999	ali	mohammad	al-omari
Edit Copy Delete	2005661	5/1/1966	khaled	esam	al-rosan
Edit Copy Delete	1561785	20/3/1987	lena	mohammad	al-khateeb
Edit Copy Delete	1616586	25/8/2000	dareen	ahmad	hammad
Edit Copy Delete	4945882	4/12/1974	ahmad	mahmoud	al-najjar
Edit Copy Delete	2044979	17/5/2001	ali	hussien	ghazal

12. Clinic table

Show query box

✔ 7 rows inserted. (Query took 0.0017 seconds.)

```
INSERT INTO clinic (name, contact_number, address_city, address_street_name, address_building_number, company_name, doctor_id,
secretary_national_number) VALUES ('Dr. Adel Hadi Al-Aqrabwai Clinic Two', 067851364, 'Zarqa', '26 Street', 21, 'Eadat_Al-Aqsa', 1, 202165465),
('Dr. Khaled Al-Rasheed Clinic', 047252504, 'Irbid', 'Alqadseah', 5, 'Eadat_Al-Aqsa', 2, 204984655), ('Dr. Mohammad Al-Khaldi Clinic One',
052453545, 'Amman', 'Alshaab', 11, 'Eadat_Al-Aqsa', 3, 256461248), ('Dr. Mohammad Al-Khaldi Clinic Two', 034654132, 'Al-Balqaa', '60 Street', 18,
'Eadat_Al-Aqsa', 3, 204984655), ('Dr. Bahaa Abdallat Clinic one', 054984123, 'Amman', 'King The Second Abdullah', 1, 'Eadat_Al-Aqsa', 4, 985598952),
('Dr. Bahaa Abdallat Clinic Two', 062084172, 'zarqa', 'Algaish', 15, 'Eadat_Al-Aqsa', 4, 985598952), ('Dr. Mahmoud Odeh Clinic', 051651323, 'Amman',
```

[Edit inline] [Edit] [Create PHP code]

name	contact_number	address_city	address_street_name	address_building_number	company_name	doctor_id	secretary_national_number
Dr. Adel Hadi Al-Aqrabwai Clinic one	54641651	Amman	Makkah Street	8	Eadat_Al-Aqsa	1	202165465
Dr. Adel Hadi Al-Aqrabwai Clinic Two	67851364	Zarqa	26 Street	21	Eadat_Al-Aqsa	1	202165465
Dr. Khaled Al-Rasheed Clinic	47252504	Irbid	Alqadseah	5	Eadat_Al-Aqsa	2	204984655
Dr. Mohammad Al-Khaldi Clinic One	52453545	Amman	Alshaab	11	Eadat_Al-Aqsa	3	256461248
Dr. Mohammad Al-Khaldi Clinic Two	34654132	Al-Balqaa	60 Street	18	Eadat_Al-Aqsa	3	204984655
Dr. Bahaa Abdallat Clinic one	54984123	Amman	King The Second Abdullah	1	Eadat_Al-Aqsa	4	985598952
Dr. Bahaa Abdallat Clinic Two	62084172	zarqa	Algaish	15	Eadat_Al-Aqsa	4	985598952
Dr. Mahmoud Odeh Clinic	51651323	Amman	Alordon	23	Eadat_Al-Aqsa	5	584562055

13. Patient_Clinic table

+ Options

←T→	clinic_name	patient_national_number
Edit Copy Delete	Dr. Mohammad Al-Khaldi Clinic One	1561785
Edit Copy Delete	Dr. Mahmoud Odeh Clinic	1616586
Edit Copy Delete	Dr. Abdel Hadi Al-Aqrabawi Clinic Two	1951635
Edit Copy Delete	Dr. Bahaa Abdallat Clinic Two	1951635
Edit Copy Delete	Dr. Khaled Al-Rasheed Clinic	2005661
Edit Copy Delete	Dr. Mohammad Al-Khaldi Clinic Two	2005661
Edit Copy Delete	Dr. Bahaa Abdallat Clinic One	2044979
Edit Copy Delete	Dr. Abdel Hadi Al-Aqrabawi Clinic One	4945882

14. Appointment table

✔ 6 rows inserted. (Query took 0.0018 seconds.)

```
INSERT INTO appointment(id, day, date, time, patient_national_number, secretary_national_number) VALUES (1, 'Tuesday', '3/9/2021', '03:00 PM', 4945882, 202165465), (2, 'Sunday', '8/10/2021', '12:25 PM', 1951635, 202165465), (3, 'Monday', '4/10/2021', '11:15 AM', 2044979, 985598952), (4, 'Wednesday', '7/9/2021', '01:10 PM', 2005661, 204984655), (5, 'Sunday', '1/10/2021', '03:45 PM', 1616586, 584562055), (6, 'Tuesday', '4/10/2021', '10:30 AM', 1561785, 256461248)
```

[Edit inline] [Edit] [Create PHP code]

id	day	date	time	patient_national_number	secretary_national_number
1	Tuesday	3/9/2021	03:00 PM	4945882	202165465
2	Sunday	8/10/2021	12:25 PM	1951635	202165465
3	Monday	4/10/2021	11:15 AM	2044979	985598952
4	Wednesday	7/9/2021	01:10 PM	2005661	204984655
5	Sunday	1/10/2021	03:45 PM	1616586	584562055
6	Tuesday	4/10/2021	10:30 AM	1561785	256461248

CREATE USERS AND GIVE PRIVILEGES + VIEW AND PROCEDURES

CREATE USERS

```
CREATE USER 'Manager of the clinic'@'localhost' IDENTIFIED BY '12345'
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE USER 'Manager of the company'@'localhost' IDENTIFIED BY '12345'
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
CREATE USER 'Patient'@'localhost' IDENTIFIED BY '12345'
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE USER 'Doctor'@'localhost' IDENTIFIED BY '12345'
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE USER 'Secretary'@'localhost' IDENTIFIED BY '12345'
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE USER 'Staff'@'localhost' IDENTIFIED BY '12345'
```

GIVE PRIVILEGES

1. MANAGER OF THE COMPANY USER

Your SQL query has been executed successfully.

```
SHOW GRANTS FOR 'Manager of the company'@'localhost'
```

+ Options

Grants for Manager of the company@localhost

GRANT ALL PRIVILEGES ON *.* TO 'Manager of the company'@'localhost'

2. MANAGER OF THE CLINIC USER

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0015 seconds.)

```
GRANT ALL PRIVILEGES ON dental_clinics.patient TO 'Manager of the clinic'@'localhost'
```

[Edit inline] [Edit] [Create PHP code

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
GRANT ALL PRIVILEGES ON dental_clinics.doctor_patient TO 'Manager of the clinic'@'localhost'
```

[Edit inline] [Edit] [Create PHP code

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
GRANT ALL PRIVILEGES ON dental_clinics.medicine TO 'Manager of the clinic'@'localhost'
```

[Edit inline] [Edit] [Create PHP code

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
GRANT ALL PRIVILEGES ON dental_clinics.prescription TO 'Manager of the clinic'@'localhost'
```

[Edit inline] [Edit] [Create PHP code

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

Console

Your SQL query has been executed successfully.

```
SHOW GRANTS FOR 'Manager of the clinic'@'localhost'
```

+ Options

Grants for Manager of the clinic@localhost
GRANT USAGE ON *.* TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`clinic` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`patient` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`prescription` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`secretary` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`doctor` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`appointment` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`medicine` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`prescription_medicine` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`patient_clinic` TO 'Manager of the clinic'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`doctor_patient` TO 'Manager of the clinic'@'localhost'

3. PATIENT USER

Grants for Patient@localhost
GRANT USAGE ON *.* TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`medicine` TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`patient` TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`appointment` TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`prescription_medicine` TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`prescription` TO 'Patient'@'localhost'

4. DOCTOR USER

Grants for Doctor@localhost
GRANT USAGE ON *.* TO 'Doctor'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`prescription` TO 'Doctor'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`doctor` TO 'Doctor'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`medicine` TO 'Doctor'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`appointment` TO 'Doctor'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`prescription_medicine` TO 'Doctor'@'localhost'

5. SECRETARY USER

Grants for Secretary@localhost
GRANT USAGE ON *.* TO 'Secretary'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`patient` TO 'Secretary'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`medicine` TO 'Secretary'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`secretary` TO 'Secretary'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`prescription` TO 'Secretary'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`appointment` TO 'Secretary'@'localhost'
GRANT SELECT, INSERT, UPDATE, DELETE ON `dental_clinics`.`prescription_medicine` TO 'Secretary'@'localhost'

6. STAFF USER

Grants for Staff@localhost
GRANT USAGE ON *.* TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`staff` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`doctor` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`patient` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`medicine` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`company_office` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`patient_clinic` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`doctor_patient` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`clinic` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`secretary` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`staff_phone` TO 'Staff'@'localhost'

PROCEDURES

1. MANAGER OF THE CLINIC PROCEDURE

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0141 seconds.)

```
CREATE PROCEDURE manager_of_the_clinic_view2 (IN clinic_name VARCHAR(200)) SELECT doctor_id, address_building_number, address_city,
address_street_name, secretary_national_number FROM clinic WHERE name = clinic_name
```

[Edit inline] [Edit] [Create PHP code]

2. MANAGER OF THE COMPANY PROCEDURE

Routine name	manager_of_the_company_view
Type	PROCEDURE Change to FUNCTION
Parameters	Direction Name Type Length/Values Options Add parameter Remove last parameter
Definition	SELECT patient_clinic.clinic_name, patient_clinic.patient_national_number, clinic.address_city, clinic.address_street_name, clinic.address_building_number FROM patient_clinic INNER JOIN clinic ON patient_clinic.clinic_name = clinic.name

3. MEDICINE NAMES PROCEDURE

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0034 seconds.)

```
CREATE PROCEDURE medicine_names (IN medicine_id INT) SELECT name FROM medicine WHERE id = medicine_id
```

[Edit i

4. PATIENT PROCEDURE

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0042 seconds.)

```
CREATE PROCEDURE patient_view1 (IN appointment_id INT) SELECT date, day, time FROM appointment WHERE id = appointment_id
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.)

```
CREATE PROCEDURE patient_view2 (IN prescription_id INT) SELECT amount_of_medicine, diagnoses FROM prescription WHERE id = prescription_id
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0007 seconds.)

```
CREATE PROCEDURE patient_view3 (IN prescription_medicine_id INT) SELECT amount_of_dose FROM prescription_medicine WHERE prescription_id =
prescription_medicine_id
```

[Edit inline] [Edit] [Create PHP code]

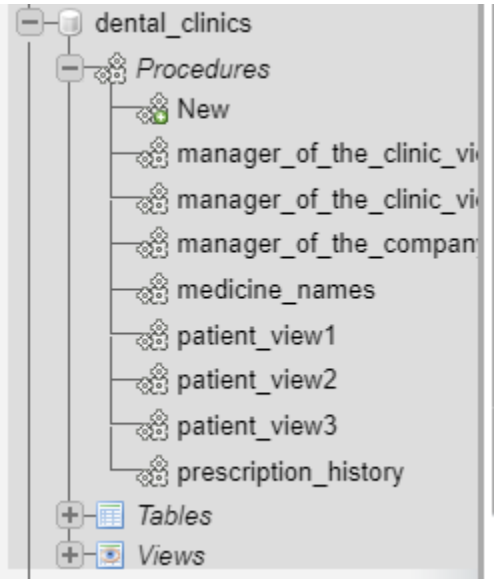
5. PRESCRIPTION HISTORY PROCEDURE

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0012 seconds.)

```
CREATE PROCEDURE prescription_history (IN prescription_id INT) SELECT diagnoses FROM prescription WHERE id = prescription_id
```

[Edit inline] [Edit] [Create P

Call of procedure:



MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

```
SET @clinic_name= 'Dr. Bahaa Abdallat Clinic One'
```

Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.)

```
CALL manager_of_the_clinic_view2(@clinic_name)
```

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

+ Options

doctor_id	address_building_number	address_city	address_street_name	secretary_national_number
4	1	Amman	King The Second Abdullah	985598952

VIEW

1. THE MANAGER OF THE COMPANY VIEW

clinic_name	patient_national_number	address_city	address_street_name	address_building_number
Dr. Mohammad Al-Khaldi Clinic One	1561785	Amman	Alshaab	11
Dr. Mahmoud Odeh Clinic	1616586	Amman	Alordon	23
Dr. Bahaa Abdallat Clinic Two	1951635	zarqa	Algaish	15
Dr. Khaled Al-Rasheed Clinic	2005661	Irbid	Alqadseah	5
Dr. Mohammad Al-Khaldi Clinic Two	2005661	Al-Balqaa	60 Street	18
Dr. Bahaa Abdallat Clinic One	2044979	Amman	King The Second Abdullah	1

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0216 seconds.)

```
CREATE VIEW patient_clinic_information AS SELECT patient_clinic.clinic_name, patient_clinic.patient_national_number, clinic.address_city,
clinic.address_street_name, clinic.address_building_number FROM patient_clinic INNER JOIN clinic ON patient_clinic.clinic_name = clinic.name
```

[Edit inline] [Edit] [Create PHP code]

2. THE MANAGER OF THE CLINIC VIEW

```
CREATE VIEW manager_of_the_clinic_one AS SELECT * FROM appointment
```

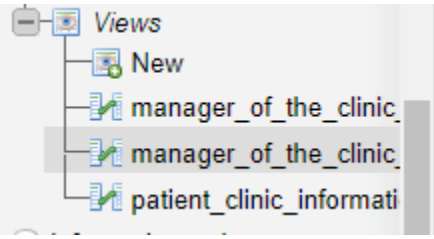
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0056 seconds.)

```
CREATE VIEW manager_of_the_clinic_two AS SELECT doctor_id, address_building_number, address_city, address_street_name, secretary_national_number FROM clinic
```

[Edit inline] [Edit] [Create PHP code]

id	day	date	time	patient_national_number	secretary_national_number
1	Tuesday	3/9/2021	03:00 PM	4945882	202165465
2	Sunday	8/10/2021	12:25 PM	1951635	202165465
3	Monday	4/10/2021	11:15 AM	2044979	985598952
4	Wednesday	7/9/2021	01:10 PM	2005661	204984655
5	Sunday	1/10/2021	03:45 PM	1616586	584562055
6	Tuesday	4/10/2021	10:30 AM	1561785	256461248

doctor_id	address_building_number	address_city	address_street_name	secretary_national_number
1	8	Amman	Makkah Street	202165465
1	21	Zarqa	26 Street	202165465
4	1	Amman	King The Second Abdullah	985598952
4	15	zarqa	Algaish	985598952
2	5	Irbid	Alqadseah	204984655
5	23	Amman	Alordon	584562055
3	11	Amman	Alshaab	256461248
3	18	Al-Balqaa	60 Street	204984655



TECHNICAL DOCUMENTATION

THE SCENARIO

In the introduction I mentioned the nature of the work that I have to do which is to create a database system for a dental clinic company and then I analyzed the tables that should be created and started from the main element which is the company and I analyzed its data from the name, address, phone number, email and offices inside it and then moved to the staff of this company and analyzed their data, name, id, email, phone numbers, etc., and I repeated the process on the schedule of the doctor and the patient and the prescriptions and appointments And the medicine and the secretary, but they have to be connected.

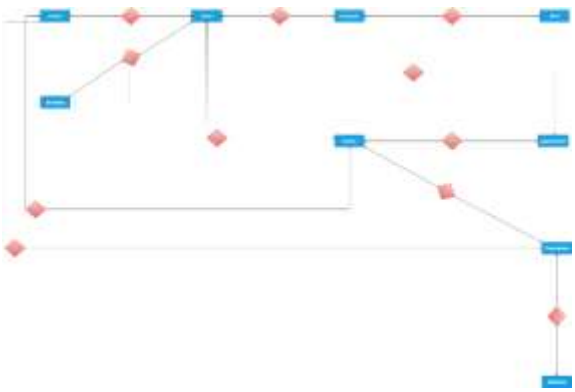
The doctor is the one who treats the patient and the patient can go to more than one doctor and get more than one prescription, and the secretary works in more than one clinic and the doctor has more than one clinic within the company, and also that the medicine is given to the patient, certainly must link her relationship with the patient and has completed the work in this context, details were explained in the previously mentioned scenario part.

BUSINESS NEEDS & USER GROUPS

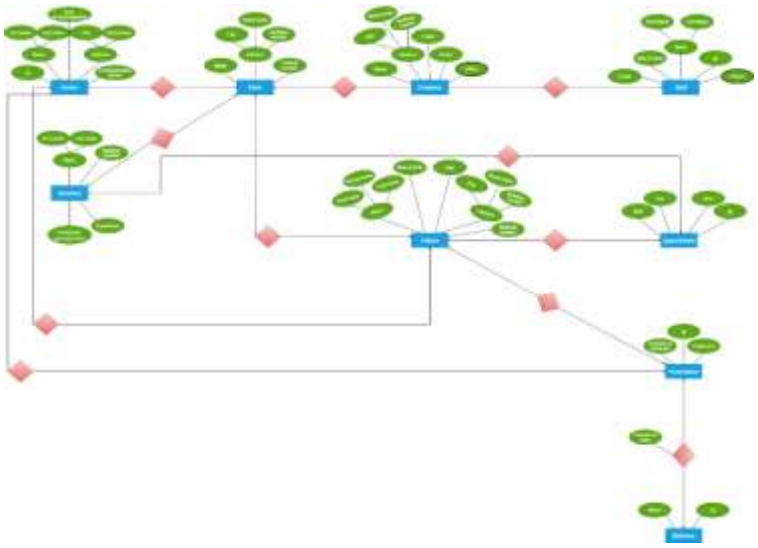
Here you must write who users will use the database system and what roles and places they can access within the database and the result was that the staff has access to the drug information for each clinic and staff information and solve technical problems and the role of the secretary by booking appointments and adding patient information to the system and the ability to reach the doctor on the system that he can read the patient's information, sick history and date of visits to the clinic and that the patient also has an important role on the system which is to see the previous and subsequent appointments and his sick history and also the director of the clinic has a role on the system to see the days when the number of patients visits to the clinic is increased so that he knows how many doctors should be inside the clinic, and the director of the company has all the powers on all tables and to know the total number of patients for each clinic with its characteristics, details were explained in the previously mentioned user groups & business needs part.

ER DIAGRAM

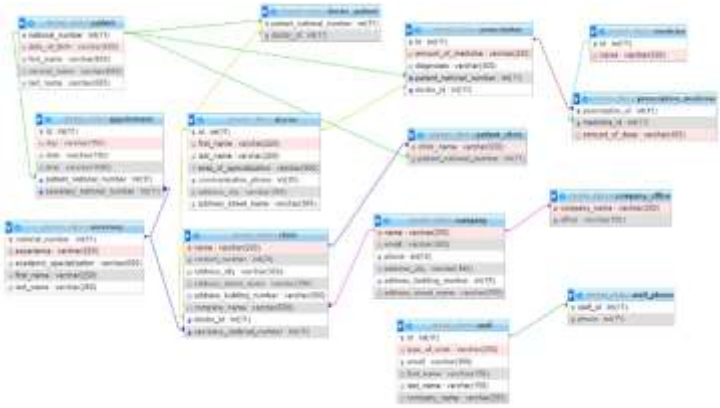
1. CONCEPTUAL SCHEMA we have to do a blueprint or diagram for relationships, tables, and each table is represented by something called entity, that the entity gives it a rectangular shape and that the relationship gives it a diamond shape and for the many relationships the biggest signal (<) is placed with a beggar in the middle (—<)



2. LOGICAL SCHEMA we must make additions to the conceptual schema chart and add details to each table, which is called attribute and represented in an oval shape and varying types, there is derived attribute, multivalued attribute, key attribute and composite attribute and each particular usage type



3. PHYSICAL SCHEMA It is a representation of logical E-R diagram but via phpMyAdmin where it can be created after creating tables and storing their data then we can design this diagram by linking the primary key and foreign key between tables with each other via designer, like that:



MAPPING

After creating the E-R diagram, these drawings must be represented in the form of written tables and then created on phpMyAdmin and to create written tables we schedule each entity and write the elements in them, starting with primary key and ending with foreign key if it exists and putting all the attribute between them, but the multivalued attribute requires a table alone and complex attribute also if there is and also the relationship many to require a table alone that connects the two tables and places the attributes as primary key and foreign key to, if there is an attribute placed on the relationship itself, we add it to this table but without placing it as primary key and foreign key, like that:

Company: (Name, Email, Phone, Address_City, Address_Building_Number, Address_Street_Name)

Company_Office: (Company_Name, Office)

Staff: (Id, Type_of_work, Email, First_Name, Last_Name, Company_Name)

Staff_Phone: (Staff_Id, Phone)

Patient: (National_Number, Date_of_birth, First_Name, Second_Name, Last_Name)

Doctor: (Id, Area_of_Specialization, Communication_Phone, Frist_Name, Last_Name, Address_City, Address_Street_Name)

Doctor_Patient: (Patient_National_Number, Doctor_Id)

Prescription: (Id, Amount_of_medicine, Diagnoses, Patient_National_Number, Doctor_Id)

Medicine: (Id, Name)

Prescription_Medicine: (Prescription_Id, Medicine_Id, Amount_of_dose)

Secretary: (National_Number, Experience, Academic_Specialization, First_Name, Last_Name)

Clinic: (Name, Contact_Number, Address_City, Address_Street_Name, Address_Building_Number, Company_Name, Doctor_Id, Secretary_National_Number)

Patient_Clinic: (Clinic_Name, Patient_National_Number)

Appointment: (Id, Day, Date, Time, Patient_National_Number, Secretary_National_Number)

NORMALIZATION

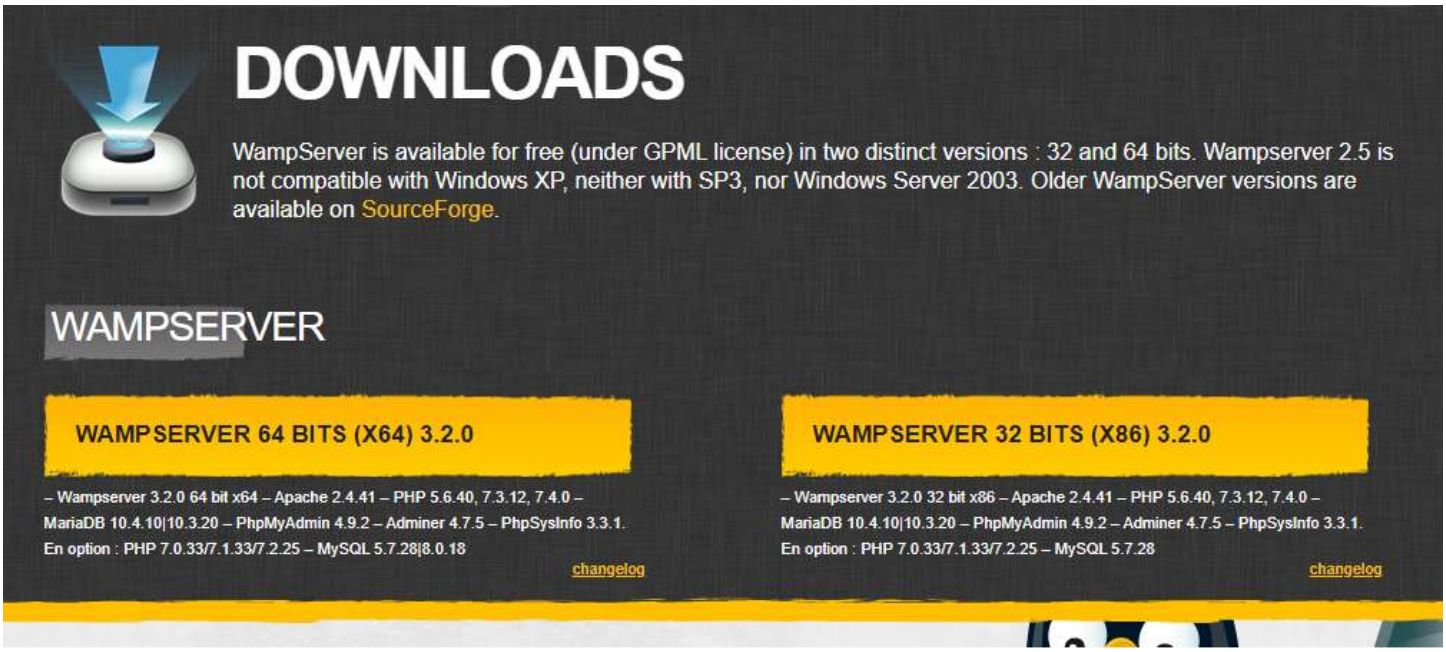
1) FIRST NORMAL FORM: In the staff table I used the first normal form and the table was that: staff (Id, Type_of_work, Email, First_Name, Last_Name, Company_Name, phones) Because there are a lot of members have more than one phone number and the phone attribute are a multivalued attribute, so in one table of-course there is redundant data and it wastes disk space and creates maintenance problems, so I made two tables,
   the first is: Staff (Id, Type_of_work, Email, First_Name, Last_Name, Company_Name)
   And the second table is: Staff_Phone (Staff_Id, Phone)
2) SECOND NORMAL FORM: I used the second normal form in the doctor and patient tables and that was: (Patient_National_Number, Patient_Date_of_birth, Patient_First_Name, Patient_Second_Name, Patient_Last_Name, Doctor_Id, Doctor_Area_of_Specialization, Doctor_Communication_Phone, Doctor_Frist_Name, Doctor_Last_Name, Doctor_Address_City, Doctor_Address_Street_Name)There is a partial dependency in this table and to remove it I broke the relation into more than one table like this:
   (Patient_National_Number, Patient_Date_of_birth, Patient_First_Name, Patient_Second_Name, Patient_Last_Name)
   (Doctor_Id, Doctor_Area_of_Specialization, Doctor_Communication_Phone, Doctor_Frist_Name, Doctor_Last_Name, Doctor_Address_City, Doctor_Address_Street_Name)

(Patient_National_Number, Doctor_Id)

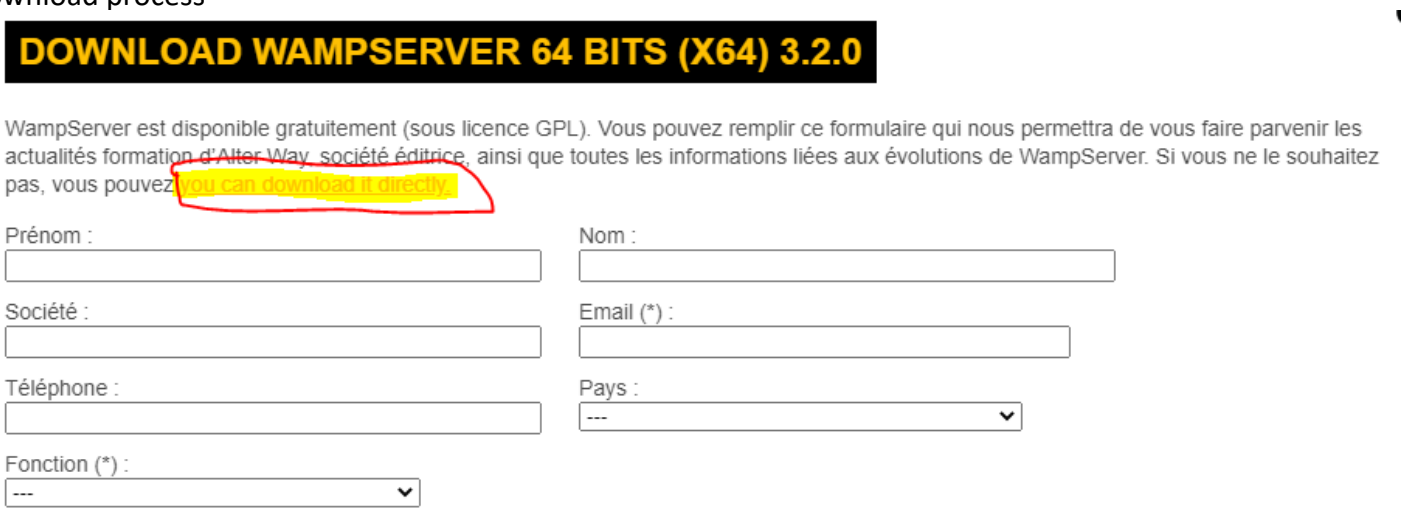
INSTALL WAMP SERVER AND LOG IN TO PHPMYADMIN

To install Wamp server go with these steps:

1. Download the Wamp server: Go to the official website http://www.wampserver.com/en/and download the WampServer setup. There are two versions of WampServer are available i.e. 64-bits (x64) and 32-bits (x86), choose according to your computer's configuration

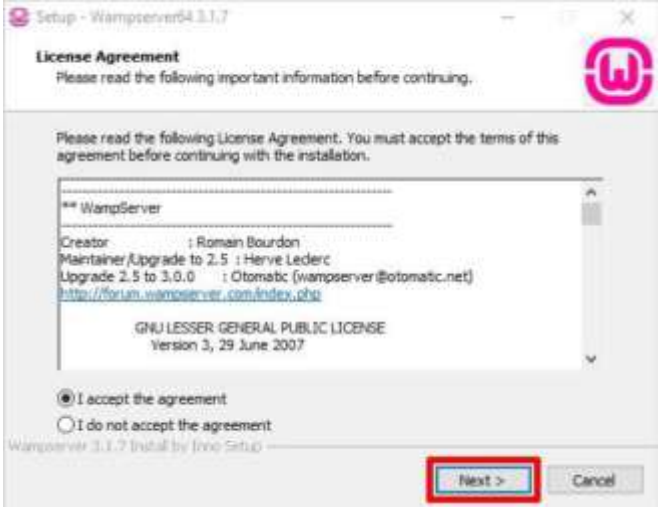


Once you click on the download option, a popup will appear showing some warnings. Just don't worry about these warnings instead of clicking on the "Download Directly" link as shown below and proceed with the download process



2. Initiate WAMP Server Install Process: Soon after you click on the downloaded file, you will be asked to choose your preferred language and click the “Ok” button. As I am choosing English here. See below.

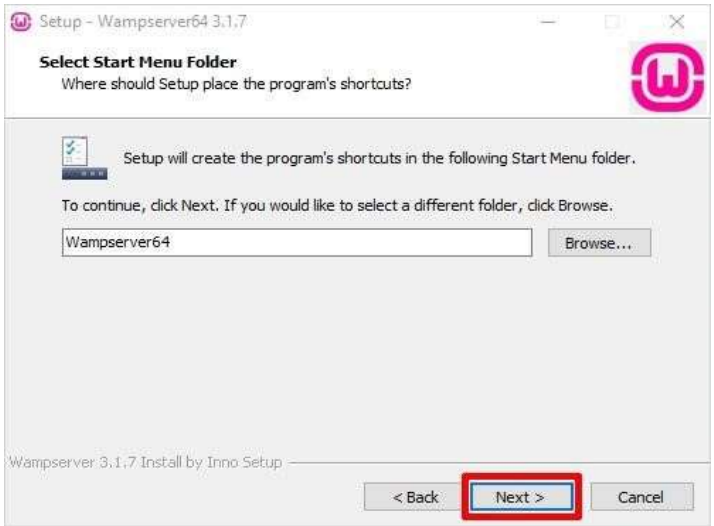
The next screen you will see is about the license agreement. Click on the “I accept the agreement” radio button and then the “Next” button to continue with the installation shown below.



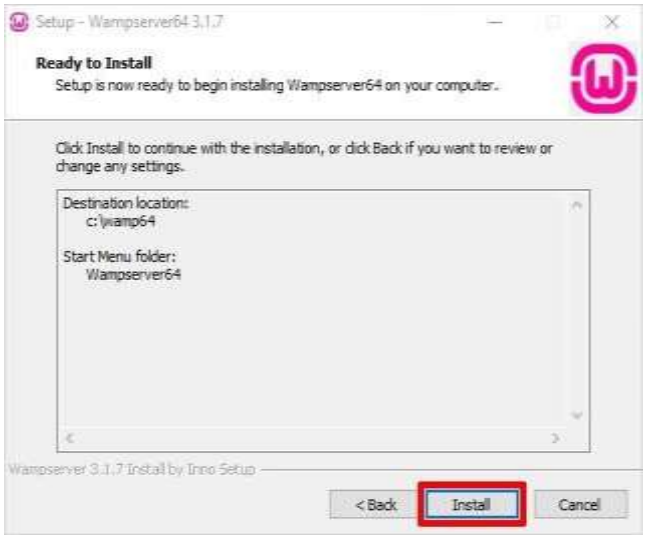
The next screen will inform you about the required components that have to be present in your computer system for the proper functioning of the WampServer. The main purpose of this step is to check for the suitable version of Microsoft VC++ redistributable package. Click on the ‘Next’ to continue.

3. Select Location/Destination to Install WAMP: Here, you need to select the location to install the WAMP on your computer. However, you can accept the default location and move ahead. To continue with the installation hit the 'Next' button.

4. Now, you need to select the folder where you wish to create the program's shortcut.
You can select any folder of your choice or you can continue with the default option. You can easily access this folder from the Windows start button. Choose the folder and click 'Next' to continue



5. Ready to install WAMP: Finally, you would see a ready to install wizard with a ready setup to begin the installation. Just hit the 'Install' button to begin the installation procedure.



6. WAMP installation complete: The installation is almost done now simply click ‘Finish’ to exit the setup.

After that go to the local server since become green and click on phpMyAdmin to go to the website of it and log in by default in username “root” and there is no password so it stays empty and click go

TECHNICAL SUPPORT

In any problem or explain or help contact with this email for a technical support: mahmoudrmn@gmail.com

USER DOCUMENTATION

THE SCENARIO

This company has many clinics, patients and doctors and this **company** has name, address (city, street name and building number), phone, email and offices. This company has many staffs and each **staff** has: name (first name and last name), Id, email, phones and type of work. Each **clinic** has name, address (city, street name and building number), contact number. Each clinic has one doctor and one secretary but the doctor and the secretary can work in more than one clinic, and each doctor can take care of more than one patient and the patient can to go on more than one doctor and one secretary, the database keeps each **doctor**'s information including: name (first name and last name), address (city and street name), communication phone, area of specialization and Id. **Patient** information is also maintained by the database system such as: name (first name, second name and last name), address (city, street name and building number), date of birth, age, national number. Each patient has **appointments** in: date, day, time and Id. Each patient has prescriptions was written by the doctor, the doctor can write more than one prescription and each **prescription** has: Id, amount of medicine and diagnoses, each prescription has many medicines, each medicine can be in more than one prescription and it has amount of dose and each **medicine** has: name and Id. The patient can schedule and cancel appointments and order prescription through the clinic's contact number by secretary and the secretary can schedule and cancel more than one appointment. The **secretary** has information such as: name (first name and last name), national number, academic specialization and experience.

USER GROUPS & BUSINESS NEEDS

1. Staff: Seeing and solving the technical problems in the system in all clinics, seeing the information of the medicines for each clinic and the number of it, taking over the affairs of employees in terms of working hours and editing for their personal information and so on

2. Secretary: Booking appointments and adding patient's information to the system

3. Doctor: Read the patient's medical history and the date of his visits to the clinic to see the surgeries or procedures he has performed in the past, so that the doctor avoids any things that may negatively affect the patient's health

4. Patient: See his upcoming and previous appointment information, his medical history and the medications he should take through the prescription

5. Manager of the clinic: See the weekdays with the highest number of appointments so that he takes some decisions about the number of doctors in the same clinic and organize their working hours

6. Manager of the company: See the information of all clinics within the company and the employees who work within this company in terms of the most visited clinics by patients and the information of each clinic in terms of real estate, location, licenses, tax, and periodic maintenance of it

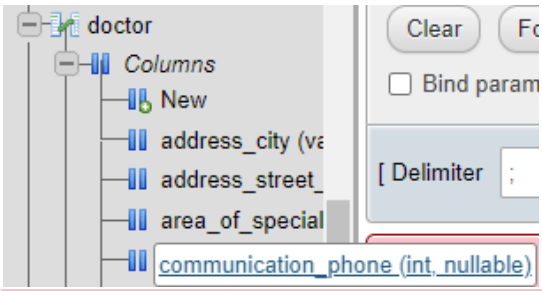
USER SUPPORT

In any problem or explain or help contact with this email for a user support: mahmoudrmn@gmail.com

TESTING

DATA VALIDATION

1. DATA TYPE




```
INSERT INTO doctor (id, communication_phone)
VALUES (8, number 5)
```

MySQL said:

```
#1064 - You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '5)'
at line 2
```

```
INSERT INTO doctor (id, communication_phone)
VALUES (1, 1646456)
```

MySQL said:

```
#1062 - Duplicate entry '1' for key 'PRIMARY'
```

3. PROCEDURE

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

```
SET @clinic_name= 'Dr. Bahaa Abdallat Clinic One'
```

Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.)

```
CALL manager_of_the_clinic_view2(@clinic_name)
```

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

+ Options

doctor_id	address_building_number	address_city	address_street_name	secretary_national_number
4	1	Amman	King The Second Abdullah	985598952

4. VIEW

Showing rows 0 - 5 (6 total, Query took 0.0018 seconds.)

```
SELECT * FROM patient_clinic_information
```

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

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

- Options

	clinic_name	patient_national_number	address_city	address_street_name	address_building_number
Edit Copy Delete	Dr. Mohammad Al-Khaldi Clinic One	1561785	Amman	Alshaab	11
Edit Copy Delete	Dr. Mahmoud Odeh Clinic	1616586	Amman	Alordon	23
Edit Copy Delete	Dr. Bahaa Abdallat Clinic Two	1951635	zarqa	Algaish	15
Edit Copy Delete	Dr. Khaled Al-Rasheed Clinic	2005661	Irbid	Alqadseah	5
Edit Copy Delete	Dr. Mohammad Al-Khaldi Clinic Two	2005661	Al-Balqaa	60 Street	18
Edit Copy Delete	Dr. Bahaa Abdallat Clinic One	2044979	Amman	King The Second Abdullah	1

5. SELECT

Your SQL query has been executed successfully.

```
SELECT COUNT(amount_of_medicine), patient_national_number FROM prescription WHERE patient_national_number = 1616586
```

Profiling [Edit inline] [Edit] [

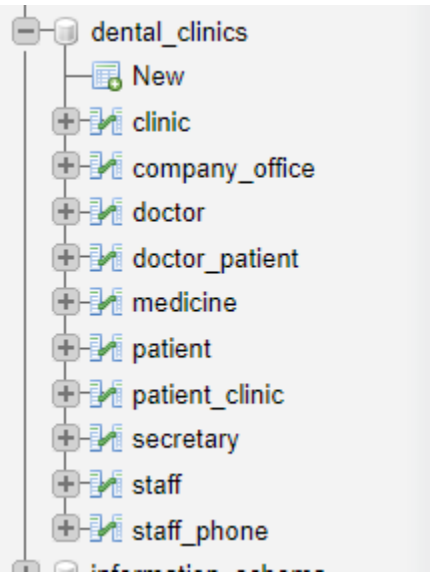
+ Options

COUNT(amount_of_medicine)	patient_national_number
4	1616586

Query results operations

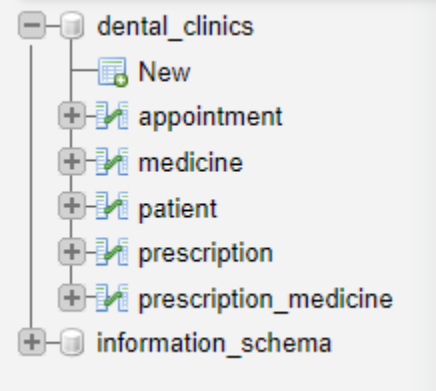
6. USERS PRIVILEGES

STAFF USER



Grants for Staff@localhost
GRANT USAGE ON *.* TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`staff` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`doctor` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`patient` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`medicine` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`company_office` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`patient_clinic` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`doctor_patient` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`clinic` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`secretary` TO 'Staff'@'localhost'
GRANT ALL PRIVILEGES ON `dental_clinics`.`staff_phone` TO 'Staff'@'localhost'

PATIENT USER



Grants for Patient@localhost
GRANT USAGE ON *.* TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`medicine` TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`patient` TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`appointment` TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`prescription_medicine` TO 'Patient'@'localhost'
GRANT SELECT ON `dental_clinics`.`prescription` TO 'Patient'@'localhost'