Assignment#1 - ER, Relational Design, SQL

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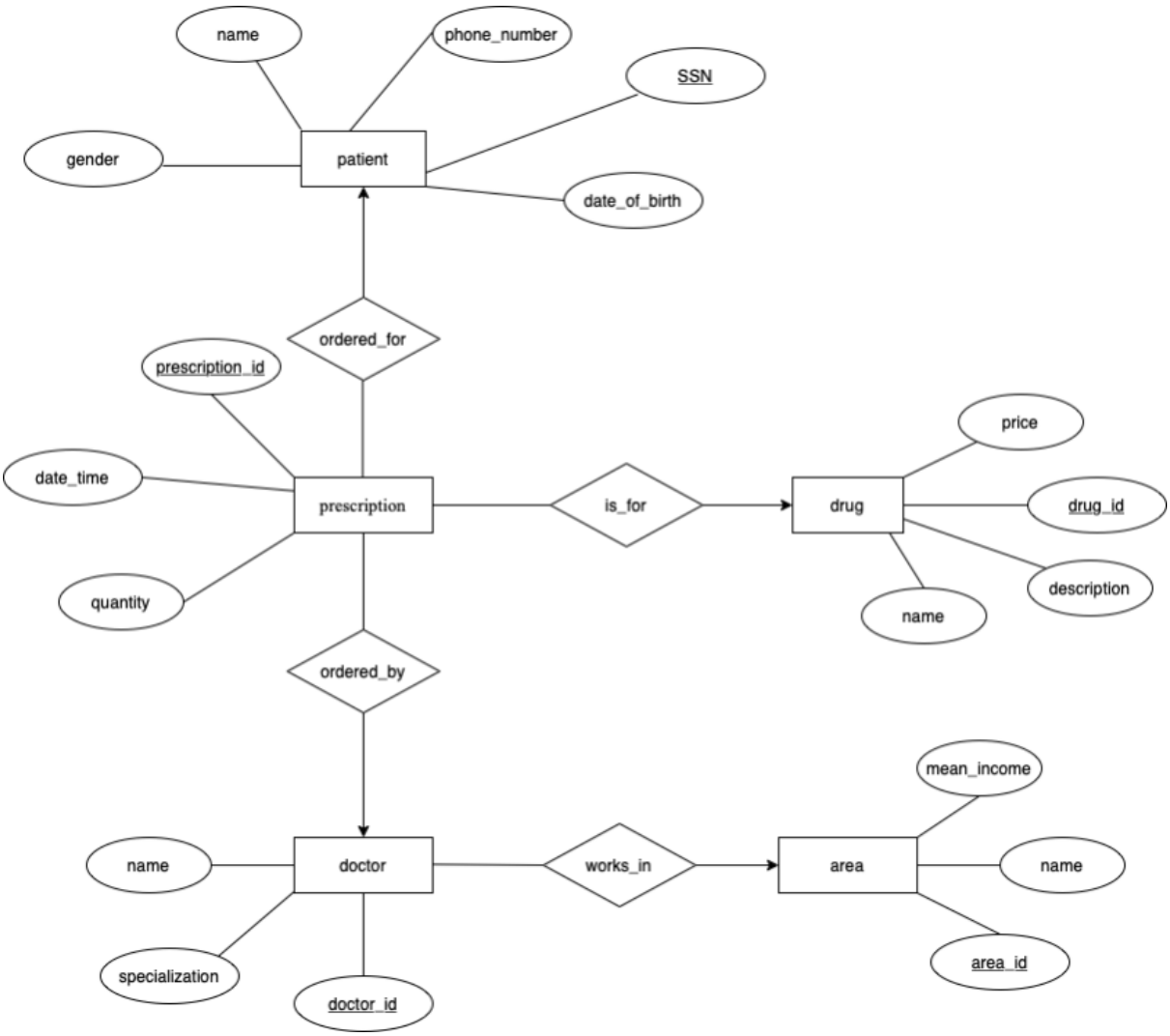
###Q1: ERD
ERD_URL



###Q2

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CREATE SCHEMA `medical_prescriptions` ;

CREATE TABLE `medical_prescriptions`.`patient` (
  `SSN` INT NOT NULL,
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  `name` VARCHAR(60) NOT NULL,
  `date_of_birth` DATE NOT NULL,
  `gender` VARCHAR(6) NOT NULL,
  `phone_number` CHAR(10) NOT NULL,
  PRIMARY KEY (`SSN`));

CREATE TABLE `medical_prescriptions`.`drug` (
  `drug_id` INT NOT NULL,
  `name` VARCHAR(160) NOT NULL,
  `price` DECIMAL(5,2) NOT NULL,
  `description` VARCHAR(2000) NOT NULL,
  PRIMARY KEY (`drug_id`));

  CREATE TABLE `medical_prescriptions`.`area` (
  `area_id` INT NOT NULL,
  `name` VARCHAR(60) NOT NULL,
  `mean_income` DECIMAL(7,2) NOT NULL,
  PRIMARY KEY (`area_id`));

CREATE TABLE `medical_prescriptions`.`doctor` (
  `doctor_id` INT NOT NULL,
  `name` VARCHAR(60) NOT NULL,
  `specialization` VARCHAR(100) NOT NULL,
  `area_id` INT NOT NULL,
  PRIMARY KEY (`doctor_id`),
  INDEX `area_id_idx` (`area_id` ASC) VISIBLE,
  CONSTRAINT `area_id`
    FOREIGN KEY (`area_id`)
    REFERENCES `medical_prescriptions`.`area` (`area_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION);

CREATE TABLE `medical_prescriptions`.`prescription` (
  `prescription_id` INT NOT NULL,
  `date_time` DATETIME NOT NULL,
  `quantity` INT NOT NULL,
  `patient_SSN` INT NOT NULL,
  `doctor_id` INT NOT NULL,
  `drug_id` INT NOT NULL,
  PRIMARY KEY (`prescription_id`),
  INDEX `patient_SSN_idx` (`patient_SSN` ASC) VISIBLE,
  INDEX `doctor_id_idx` (`doctor_id` ASC) VISIBLE,
  INDEX `drug_id_idx` (`drug_id` ASC) VISIBLE,
  CONSTRAINT `patient_SSN`
    FOREIGN KEY (`patient_SSN`)
    REFERENCES `medical_prescriptions`.`patient` (`SSN`)
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    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `doctor_id`
    FOREIGN KEY (`doctor_id`)
    REFERENCES `medical_prescriptions`.`doctor` (`doctor_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `drug_id`
    FOREIGN KEY (`drug_id`)
    REFERENCES `medical_prescriptions`.`drug` (`drug_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION);

INSERT INTO `medical_prescriptions`.`patient` (`SSN`, `name`,
`date_of_birth`, `gender`, `phone_number`) VALUES ('891202989',
'Petros_Apostolou', '1962-12-09', 'male', '6999999111');
INSERT INTO `medical_prescriptions`.`patient` (`SSN`, `name`,
`date_of_birth`, `gender`, `phone_number`) VALUES ('120980979',
'Anna_Ioannou', '1980-09-12', 'female', '6999999222');
INSERT INTO `medical_prescriptions`.`patient` (`SSN`, `name`,
`date_of_birth`, `gender`, `phone_number`) VALUES ('240194282',
'John_Kapis', '1944-01-24', 'male', '6999999333');
INSERT INTO `medical_prescriptions`.`patient` (`SSN`, `name`,
`date_of_birth`, `gender`, `phone_number`) VALUES ('180799656',
'George_Nikolaou', '1939-07-18', 'male', '6999999444');
INSERT INTO `medical_prescriptions`.`patient` (`SSN`, `name`,
`date_of_birth`, `gender`, `phone_number`) VALUES ('250187476',
'Mary_Pantazi', '1987-01-25', 'female', '6999999555');
INSERT INTO `medical_prescriptions`.`patient` (`SSN`, `name`,
`date_of_birth`, `gender`, `phone_number`) VALUES ('310301984',
'Alex_Dritsopoulos', '2001-01-31', 'male', '6999999666');
INSERT INTO `medical_prescriptions`.`patient` (`SSN`, `name`,
`date_of_birth`, `gender`, `phone_number`) VALUES ('281103213',
'Marios_Dimas', '1945-11-28', 'male', '6999999777');
INSERT INTO `medical_prescriptions`.`patient` (`SSN`, `name`,
`date_of_birth`, `gender`, `phone_number`) VALUES ('140698776',
'Kate_Panou', '1968-06-14', 'female', '6999999888');


INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('1805', 'BERIPLEX', '331.53', 'Beriplex is used
for the prevention (during surgery) and treatment of bleedings caused by
the acquired or congenital lack of vitamin K-dependent coagulation
factors II, VII, IX and X in the blood, when purified specific
coagulation factor products are not available.');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
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`description`) VALUES ('4894', 'PAROXETINE', '7.19', 'Paroxetine is a
type of antidepressant known as a selective serotonin reuptake inhibitor
(SSRI). It\'s often used to treat depression, and sometimes obsessive
compulsive disorder (OCD), panic attacks, anxiety or post-traumatic
stress disorder (PTSD).');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('5802', 'MYFENAX', '57.56', 'Myfenax is used to
prevent the body from rejecting a transplanted kidney, heart or liver.
It is used with ciclosporin and corticosteroids (other medicines used to
prevent organ rejection). The medicine can only be obtained with a
prescription.');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('1471', 'SYLVANT', '638.67', 'Sylvant is a
medicine that is used to treat multicentric Castleman\'s disease in
adults who are not infected with human immunodeficiency virus (HIV) and
human herpesvirus-8 (HHV-8).');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('4906', 'CANDEPRESS', '5.25', 'The name of
medicine is CandePress. The active ingredient is candesartan cilexetil.
This belongs to a group of medicines called angiotensin II receptor
antagonists. It works by making your blood vessels relax and widen. This
helps to lower your blood pressure.');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('8871', 'AMOXIL', '6.06', 'Amoxicillin is a
penicillin antibiotic. It is used to treat bacterial infections, such as
chest infections (including pneumonia) and dental abscesses. It can also
be used together with other antibiotics and medicines to treat stomach
ulcers.');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('9987', 'ARAVA', '40.07', 'Leflunomide (Arava) is
a drug approved to treat adult moderate to severe rheumatoid arthritis
along with other rheumatic diseases. It belongs to a class of
medications called disease-modifying antirheumatic drugs (DMARDs), which
aim to decrease inflammation and permanent damage.');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('1256', 'LEXOTANIL', '4.03', 'Lexotan belongs to
a group of medicines called benzodiazepines which are thought to work by
their action on brain chemicals. Lexotan is used for anxiety, tension or
agitation. Anxiety or tension associated with the normal stress of
everyday life usually does not require treatment with medicines.');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('4689', 'PARIET', '12.51', 'Pariet tablets
contain the active ingredient rabeprazole sodium. This belongs to a
group of medicines called \'Proton Pump Inhibitors\' (PPIs). They work
by lowering the amount of acid that your stomach produces.');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
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`description`) VALUES ('7762', 'PROCORALAN', '30.14', 'Procoralan is a
heart medicine used to treat the symptoms of long-term stable angina
(pains to the chest, jaw and back, brought on by physical effort) in
adults with coronary artery disease (disease of the heart caused by the
obstruction of the blood vessels that supply blood to the heart
muscle).');
INSERT INTO `medical_prescriptions`.`drug` (`drug_id`, `name`, `price`,
`description`) VALUES ('5812', 'CIPOCAL', '11.71', 'Cipocal 0.005%
(calcipotriene foam) Foam is indicated for the topical treatment of
plaque psoriasis in patients aged 18 years and older.');


INSERT INTO `medical_prescriptions`.`area` (`area_id`, `name`,
`mean_income`) VALUES ('582413', 'marousi', '29506.31');
INSERT INTO `medical_prescriptions`.`area` (`area_id`, `name`,
`mean_income`) VALUES ('779082', 'kipseli', '14398.77');
INSERT INTO `medical_prescriptions`.`area` (`area_id`, `name`,
`mean_income`) VALUES ('767533', 'psichiko', '37478.87');
INSERT INTO `medical_prescriptions`.`area` (`area_id`, `name`,
`mean_income`) VALUES ('908325', 'peristeri', '17097.53');
INSERT INTO `medical_prescriptions`.`area` (`area_id`, `name`,
`mean_income`) VALUES ('568932', 'kalithea', '23006.89');
INSERT INTO `medical_prescriptions`.`area` (`area_id`, `name`,
`mean_income`) VALUES ('324651', 'nea_smyrni', '24894.43');
INSERT INTO `medical_prescriptions`.`area` (`area_id`, `name`,
`mean_income`) VALUES ('885230', 'kifisia', '43012.65');
INSERT INTO `medical_prescriptions`.`area` (`area_id`, `name`,
`mean_income`) VALUES ('705560', 'iraklio', '18124.90');

INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('75391', 'Christos_Ioannou',
'dermatology', '568932');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('38502', 'Andreas_Markopoulos',
'neurology', '885230');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('27944', 'Athanasia_Alexiou',
'psychiatry', '705560');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('36648', 'Christos_Papadopoulos',
'psychiatry', '582413');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('28597', 'Anna_Meletiou',
'cardiology', '767533');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('32315', 'Anastasios_Makris',
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'gastroenterology', '324651');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('46893', 'Dimitrios_Andreou',
'cardiology', '582413');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('23998', 'Anthi_Nikolaou',
'cardiology', '779082');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('46876', 'Ioannis_Skaris',
'psychiatry', '705560');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('99098', 'Anastasios_Dimitriadis',
'cardiology', '885230');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('32188', 'Apostolos_Grigoriadis',
'gastroenterology', '779082');
INSERT INTO `medical_prescriptions`.`doctor` (`doctor_id`, `name`,
`specialization`, `area_id`) VALUES ('77554', 'Fotis_Lazaridis',
'cardiology', '908325');


INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('87932554', '2021-12-09 18:50:10', '7', '120980979', '75391', '5812');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('45932534', '2021-07-07 19:40:20', '3', '180799656', '27944', '1256');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('81932534', '2020-12-07 18:40:20', '5', '180799656', '27944', '1256');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('15854214', '2020-10-30 20:00:40', '8', '310301984', '38502', '9987');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('77543378', '2020-09-22 19:50:30', '6', '240194282', '99098', '1805');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('13556777', '2020-03-30 20:55:00', '7', '140698776', '46893', '1471');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('93443308', '2020-12-22 18:10:30', '5', '240194282', '99098', '7762');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('45854214', '2021-03-30 19:00:40', '5', '310301984', '38502', '9987');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
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`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('77454222', '2020-10-09 19:05:30', '5', '140698776', '28597', '4906');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('95357332', '2020-12-29 18:30:40', '6', '140698776', '32188', '4689');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('77549998', '2021-07-22 18:50:30', '4', '240194282', '99098', '1805');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('24544667', '2021-06-09 19:50:50', '5', '281103213', '32315', '4689');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('65676778', '2020-06-08 20:00:30', '9', '250187476', '75391', '5812');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('88976543', '2021-09-20 20:15:35', '5', '891202989', '32188', '8871');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('26567790', '2021-01-20 19:15:45', '7', '120980979', '75391', '5812');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('90986322', '2020-04-20 18:00:55', '7', '281103213', '32315', '8871');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('34356765', '2020-05-07 19:05:45', '6', '180799656', '27944', '4894');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('56788843', '2021-05-19 19:45:20', '12', '140698776', '28597', '4906');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('34556777', '2021-11-30 20:05:00', '9', '140698776', '46893', '1471');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('34556888', '2021-12-30 20:05:00', '7', '891202989', '46893', '1471');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('56788877', '2021-09-19 19:45:20', '10', '281103213', '28597', '4906');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('77788878', '2021-02-19 19:45:20', '7', '240194282', '77554', '1471');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('77788894', '2021-04-19 19:45:20', '11', '240194282', '77554', '1471');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
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```
('79843378', '2021-07-22 18:40:30', '8', '240194282', '99098', '1805');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('69843378', '2021-08-22 18:50:30', '5', '240194282', '99098', '5802');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('68943378', '2020-10-22 18:50:30', '3', '240194282', '99098', '5802');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('99843308', '2021-04-22 18:10:30', '4', '240194282', '99098', '7762');
INSERT INTO `medical_prescriptions`.`prescription` (`prescription_id`,
`date_time`, `quantity`, `patient_SSN`, `doctor_id`, `drug_id`) VALUES
('95932566', '2021-11-07 19:40:20', '7', '180799656', '27944', '4894');
```

```
###Q3a
SELECT SSN, medical_prescriptions.patient.name
from medical_prescriptions.patient, medical_prescriptions.prescription
where SSN=patient_SSN and gender='male' and date_of_birth<='1992-10-09'
and year(date_time )='2021'
GROUP BY SSN
HAVING COUNT(*)>=1;

###Q3b
SELECT SSN, pt.name
from medical_prescriptions.patient as pt
where  gender='female' and (1000< all (select  sum(price * quantity)
                  from medical_prescriptions.prescription as pr,
medical_prescriptions.drug as dr
                where SSN=patient_SSN and dr.drug_id=pr.drug_id and
year(date_time)='2021'));

###Q3c
CREATE VIEW medical_prescriptions.V1(doctor_id,total) as
SELECT dr.doctor_id, sum(price*quantity)
FROM medical_prescriptions.doctor as dr,
medical_prescriptions.prescription as pr, medical_prescriptions.drug as
d
WHERE dr.doctor_id = pr.doctor_id and pr.drug_id=d.drug_id
GROUP BY dr.doctor_id;

SELECT area.area_id, area.name, sum(total)
from medical_prescriptions.V1, medical_prescriptions.area,
medical_prescriptions.doctor
```

```
WHERE area.area_id=doctor.area_id and doctor.doctor_id=V1.doctor_id
GROUP BY area_id;

###Q3d
CREATE VIEW medical_prescriptions.V2(months,prescription_id) as
SELECT  month(date_time), pr.prescription_id
FROM  medical_prescriptions.prescription as pr
WHERE year(date_time)='2021';

select pr.drug_id, months, sum(price*quantity) as amount
from medical_prescriptions.prescription as pr,
medical_prescriptions.drug as d, medical_prescriptions.V2
WHERE pr.prescription_id=V2.prescription_id and pr.drug_id=d.drug_id
group by months, pr.drug_id
order by pr.drug_id;

###Q3e
CREATE VIEW medical_prescriptions.V3(doctor_id,name) as
select d.doctor_id, d.name
from medical_prescriptions.doctor as d,medical_prescriptions.area as a
where d.area_id=a.area_id and mean_income between 20000 and 30000;

select V3.doctor_id, V3.name, total
from medical_prescriptions.V1, medical_prescriptions.V3
WHERE V3.doctor_id=V1.doctor_id;


###Q3f
SELECT dr.specialization, count(*) as number_of_prescriptions
FROM medical_prescriptions.doctor as dr,
medical_prescriptions.prescription as pr
WHERE dr.doctor_id = pr.doctor_id
GROUP BY dr.specialization;

###Q3g
CREATE VIEW
medical_prescriptions.drug_2020(drug_id,total_amount_of_prescriptions)
as
SELECT d.drug_id, sum(price*quantity)
FROM  medical_prescriptions.prescription as pr,
medical_prescriptions.drug as d
WHERE year(date_time)='2020' and pr.drug_id=d.drug_id
GROUP BY d.drug_id;

CREATE VIEW
medical_prescriptions.drug_2021(drug_id,total_amount_of_prescriptions)
```

```
as
SELECT d.drug_id, sum(price*quantity)
FROM  medical_prescriptions.prescription as pr,
medical_prescriptions.drug as d
WHERE year(date_time)='2021' and pr.drug_id=d.drug_id
GROUP BY d.drug_id;

select drug_2021.drug_id, ((drug_2021.total_amount_of_prescriptions-
drug_2020.total_amount_of_prescriptions)/drug_2020.total_amount_of_presc
riptions)*100 as percentage
from medical_prescriptions.drug_2021, medical_prescriptions.drug_2020
where drug_2021.drug_id=drug_2020.drug_id;

###Q3h
CREATE VIEW
medical_prescriptions.drug_per_gender_2021(drug_id,amount,gender) as
SELECT pr.drug_id, (price*quantity),gender
FROM  medical_prescriptions.prescription as pr,
medical_prescriptions.patient as p, medical_prescriptions.drug as d
WHERE year(date_time)='2021' and SSN=patient_SSN and
pr.drug_id=d.drug_id ;

select drug_id,
         sum(case when gender='male' then amount else null end) as
amount_male,
       sum(case when gender='female' then amount else null end) as
amount_female
from medical_prescriptions.drug_per_gender_2021
group by drug_id;


#***GENERAL NOTE: amount=money=price*quantity, number of prescriptions =
count()


### Q4

#PYTHON_Code

import mysql.connector

mydb=mysql.connector.connect(host="localhost", user="root",
passwd="********", database="medical_prescriptions")

mycursor=mydb.cursor()
```

```
mycursor.execute("select prescription_id, date_time, p.name,
phone_number, d.name, specialization, dr.name, price,  quantity from
medical_prescriptions.prescription as pr, medical_prescriptions.doctor
as d, medical_prescriptions.patient as p, medical_prescriptions.drug as
dr where SSN=patient_SSN and pr.doctor_id=d.doctor_id and
dr.drug_id=pr.drug_id;")

for i in mycursor:
    print(i)
```