HOMEWORK - DATABASE

19. Design the necessary database for records of patients and consultations at a private office

1. Design the database

CREATE DATABASE dbhm28;

```
mysql> CREATE DATABASE dbhm28;
Query OK, 1 row affected (0.00 sec)
```

2. Verify that the database has been created

SHOW DATABASES;

3. Set the database to use

USE dbhm28;

mysql> USE dbhm28; Database changed

4. Create the database tables (minimum three tables, maximum five tables)

CREATE TABLE consultations (name char(20) primary key, price float, description char(50));

CREATE TABLE patients (client_id int unique auto_increment primary key, lastname char(20) not null, firstname char(20) not null, gender int not null, consultation_done char(20) references consultations(name), date_of_consultation date not null, foreign key (consultation done) references consultations(name));

CREATE TABLE personnel (id int unique auto_increment primary key, position char(20) not null, lastname char(20) not null, firstname char(20) not null, occupation char(20) references consultations(name), foreign key (occupation) references consultations(name));

```
mysql> CREATE TABLE consultations (name char(20) primary key, price float, descrip tion char(50));
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> CREATE TABLE patients (client_id int unique auto_increment primary key, las tname char(20) not null, firstname char(20) not null, gender int not null, consultation_done char(20) references consultations(name), date_of_consultation date not null, foreign key (consultation_done) references consultations(name));
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> CREATE TABLE personnel (id int unique auto_increment primary key, position char(20) not null, lastname char(20) not null, firstname char(20) not null, occupa tion char(20) references consultations(name), foreign key (occupation) references consultations(name));
Query OK, 0 rows affected (0.02 sec)
```

DESCRIBE consultations;

Field	Type	Null	Key	Default	Extra
	 char(20)	•		NULL	
price	float	YES		NULL	
description	char(50)	YES		NULL	

DESCRIBE patients;

Field	Type	Null	Key	Default	Extra
client_id	int	NO	PRI	NULL	auto_increment
lastname	char(20)	NO		NULL	
firstname	char(20)	NO		NULL	
gender	int	NO		NULL	
consultation_done	char(20)	YES	MUL	NULL	
date_of_consultation	date	NO		NULL	

DESCRIBE personnel;

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
position	char(20)	NO		NULL	
lastname	char(20)	NO		NULL	
firstname	char(20)	NO		NULL	
occupation	char(20)	YES	MUL	NULL	

5. Insert data into tables (minimum 15 records, maximum 20 records, in each table).

```
INSERT INTO consultations (name, price, description) VALUES
  ('dermatology', 270, 'examination and treatment'),
 ('allergy test', 95, 'procedure and interpretation'),
 ('EKG', 220, 'procedure and interpretation'),
  ('EMERGENCY', 435, 'examination'),
 ('ophthalmology', 400, 'examination and nterpretation'),
  ('angioplasty', 1360, 'procedure and recuperation'),
  ('cardiology', 350, 'exam and treatment'),
  ('abdominoplasty', 15500, 'procedure and recuperation'),
  ('biopsy', 4500, 'procedure'),
  ('orthopedics', 350, 'consult'),
  ('extraction', 325, 'procedure'),
 ('ultrasound', 210, 'procedure and interpretation'),
  ('epidermiology', 230, 'control'),
  ('hematology', 350, 'consult'),
 ('neurology', 350, 'consult'),
  ('pneumology', 435, 'consult and interpretation'),
  ('radiotherapy', 500, 'consult and medication');
```

```
mysql> INSERT INTO consultations (name, price, description) VALUES
   -> ('dermatology', 270, 'examination and treatment'),
   -> ('allergy_test', 95, 'procedure and interpretation'),
   -> ('EKG', 220, 'procedure and interpretation'),
   -> ('emergency', 435, 'examination'),
   -> ('ophthalmology', 400, 'examination and nterpretation'),
   -> ('angioplasty', 1360, 'procedure and recuperation'),
   -> ('cardiology', 350, 'exam and treatment'),
   -> ('abdominoplasty', 15500, 'procedure and recuperation'),
   -> ('biopsy', 4500, 'procedure'),
   -> ('orthopedics', 350, 'consult'),
   -> ('extraction', 325, 'procedure'),
   -> ('ultrasound', 210, 'procedure and interpretation'),
   -> ('epidermiology', 230, 'control'),
   -> ('hematology', 350, 'consult'),
   -> ('neurology', 350, 'consult'),
   -> ('pneumology', 435, 'consult and interpretation'),
   -> ('radiotherapy', 500, 'consult and medication');
Query OK, 17 rows affected (0.00 sec)
Records: 17 Duplicates: 0 Warnings: 0
```

INSERT INTO patients (lastname, firstname, gender, consultation_done, date of consultation) VALUES

```
('Anderson', 'Oliver', 0, 'dermatology', '2023-12-06'),
('Martinez', 'Sophia', 1, 'radiotherapy', '2023-10-20'),
('Reynolds', 'Ethan', 0, 'epidermiology', '2023-09-26'),
('Donovan', 'Ava', 1, 'cardiology', '2023-03-04'),
('Patel', 'Jackson', 0, 'extraction', '2023-12-19'),
('Harper', 'Mia', 1, 'EKG', '2023-10-04'),
('Williams', 'Adam', 0, 'epidermiology', '2023-06-22'),
('Nuhan', 'Isabella', 1, 'EMERGENCY', '2023-10-04'),
('Thompson', 'Lucas', 0, 'dermatology', '2023-04-26'),
('Wright', 'Angela', 1, 'orthopedics', '2023-03-07'),
('Mitchel', 'Noah', 0, 'neurology', '2023-10-01'),
('Rodriguez', 'Ella', 1, 'ophthalmology', '2023-02-14'),
('Brooks', 'Liam', 0, 'epidermiology', '2023-05-15'),
('Kim', 'Grace', 1, 'EMERGENCY', '2023-07-15'),
('Murphy', 'Caleb', 0, 'EMERGENCY', '2023-04-13'),
('Foster', 'Scarlett', 1, 'ophthalmology', '2023-09-01'),
('Evans', 'Mason', 0, 'EMERGENCY', '2023-12-19'),
('Turner', 'Lilly', 1, 'neurology', '2023-10-04');
```

```
mysql> INSERT INTO patients (lastname, firstname, gender, consultation_done, date_of_consultation) VALUES
    -> ('Anderson', 'Oliver', 0, 'dermatology', '2023-12-06'),
    -> ('Martinez', 'Sophia', 1, 'radiotherapy', '2023-10-20'),
    -> ('Reynolds', 'Ethan', 0, 'epidermiology', '2023-09-26'),
    -> ('Donovan', 'Ava', 1, 'cardiology', '2023-03-04'),
    -> ('Patel', 'Jackson', 0, 'extraction', '2023-12-19'),
    -> ('Harper', 'Mia', 1, 'EKG', '2023-10-04'),
    -> ('Williams', 'Adam', 0, 'epidermiology', '2023-06-22'),
    -> ('Nuhan', 'Isabella', 1, 'EMERGENCY', '2023-10-04'),
    -> ('Thompson', 'Lucas', 0, 'dermatology', '2023-04-26'),
    -> ('Wright', 'Angela', 1, 'orthopedics', '2023-03-07'),
    -> ('Mitchel', 'Noah', 0, 'neurology', '2023-10-01'),
    -> ('Rodriguez', 'Ella', 1, 'ophthalmology', '2023-02-14'),
    -> ('Brooks', 'Liam', 0, 'epidermiology', '2023-05-15'),
    -> ('Kim', 'Grace', 1, 'EMERGENCY', '2023-07-15'),
    -> ('Kurphy', 'Caleb', 0, 'EMERGENCY', '2023-04-13'),
    -> ('Foster', 'Scarlett', 1, 'ophthalmology', '2023-09-01'),
    -> ('Evans', 'Mason', 0, 'EMERGENCY', '2023-12-19'),
    -> ('Turner', 'Lilly', 1, 'neurology', '2023-10-04');
Query OK, 18 rows affected (0.00 sec)
Records: 18 Duplicates: 0 Warnings: 0
```

```
INSERT INTO personnel (position, lastname, firstname, occupation) VALUES
('Office assistant', 'Angel', 'Claire', 'paperwork'),
('Doctor', 'Morgan', 'Chloe', 'allergy test'),
('Doctor', 'Stewart', 'Allie', 'extraction'),
('Medical assistant', 'Rivera', 'Johnas', 'EMERGENCY'),
('Doctor', 'Morgan', 'Wyatt', 'orthopedics'),
('Medical assistant', 'Price', 'Elijah', 'dermatology'),
('Medical assistant', 'Jordan', 'Olivia', 'ultrasound'),
('Office assistant', 'Henry', 'Elijah', 'appointment'),
('Doctor', 'Rohan', 'Aria', 'angioplasty'),
('Doctor', 'Baker', 'Carlos', 'cardiology'),
('Doctor', 'Baker', 'Samuel', 'allergy test'),
('Medical assistant', 'Rodriguez', 'Carlos', 'biopsy'),
('Doctor', 'Patel', 'Mitchell', 'radiotherapy'),
('Doctor', 'Blue', 'Jackson', 'EMERGENCY'),
('Doctor', 'Taylor', 'Hayes', 'pneumology'),
('Medical assistant', 'Chang', 'Jasmine', 'hematology'),
('Office assistant', 'Turner', 'Zoe', 'reception');
```

```
mysql> INSERT INTO personnel (position, lastname, firstname, occupation) VALUES
   -> ('Doctor', 'Chang', 'Logan', 'extraction'),
   -> ('Doctor', 'Williams', 'Chloe', 'allergy test'),
   -> ('Office assistant', 'Stewart', 'Harper', 'paperwork'),
   -> ('Medical assistant', 'Rivera', 'Benjamin', 'EMERGENCY'),
   -> ('Doctor', 'Morgan', 'Zoe', 'orthopedics'),
   -> ('Doctor', 'Carther', 'Elijah', 'dermatology'),
   -> ('Medical assistant', 'Jordan', 'Samuel', 'ultrasound'),
   -> ('Doctor', 'Price', 'Avery', 'ophthalmology'),
   -> ('Doctor', 'Mitchell', 'Aria', 'angioplasty'),
   -> ('Doctor', 'Baker', 'Henry', 'cardiology'),
   -> ('Medical assistant', 'Baker', 'Olivia', 'allergy test'),
   -> ('Doctor', 'Rodriguez', 'Carlos', 'biopsy'),
   -> ('Doctor', 'Patel', 'Rohan', 'radiotherapy'),
   -> ('Medical assistant', 'Hayes', 'Jackson', 'EMERGENCY'),
   -> ('Doctor', 'Taylor', 'Morgan', 'pneumology'),
   -> ('Doctor', 'Chang', 'Jasmine', 'hematology'),
   -> ('Doctor', 'Turner', 'Wyatt', 'epidermiology');
Query OK, 17 rows affected (0.00 sec)
Records: 17 Duplicates: 0 Warnings: 0
```

6. Check the addition of records in the created tables

SELECT * FROM consultations;

name	price	description
abdominoplasty	15500	procedure and recuperation
allergy_test	95	procedure and interpretation
angioplasty	1360	procedure and recuperation
biopsy	4500	procedure
cardiology	350	exam and treatment
dermatology	270	examination and treatment
EKG	220	procedure and interpretation
EMERGENCY	435	examination
epidermiology	230	control
extraction	325	procedure
hematology	350	consult
neurology	350	consult
ophthalmology	400	examination and nterpretation
orthopedics	350	consult
pneumology	435	consult and interpretation
radiotherapy	500	consult and medication
ultrasound	210	procedure and interpretation

SELECT * FROM patients;

client_id	lastname	firstname	gender	consultation_done	date_of_consultation
1	Anderson	Oliver	0	dermatology	 2023-12-06
2	Martinez	Sophia	1	radiotherapy	2023-10-20
3	Reynolds	Ethan	0	epidermiology	2023-09-26
4	Donovan	Ava	1	cardiology	2023-03-04
5	Patel	Jackson	0	extraction	2023-12-19
6	Harper	Mia	1	EKG	2023-10-04
7	Williams	Adam	0	epidermiology	2023-06-22
8	Nuhan	Isabella	1	EMERGENCY	2023-10-04
9	Thompson	Lucas	0	dermatology	2023-04-26
10	Wright	Angela	1	orthopedics	2023-03-07
11	Mitchel	Noah	0	neurology	2023-10-01
12	Rodriguez	Ella	1	ophthalmology	2023-02-14
13	Brooks	Liam	0	epidermiology	2023-05-15
14	Kim	Grace	1	EMERGENCY	2023-07-15
15	Murphy	Caleb	0	EMERGENCY	2023-04-13
16	Foster	Scarlett	1	ophthalmology	2023-09-01
17	Evans	Mason	0	EMERGENCY	2023-12-19
18	Turner	Lilly	1	neurology	2023-10-04

SELECT * FROM personnel;

++ id	position	lastname	firstname	occupation
++ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Doctor Doctor Office assistant Medical assistant Doctor Medical assistant Doctor Doctor Doctor Doctor Medical assistant Doctor Medical assistant Doctor Medical assistant Doctor	Chang Williams Stewart Rivera Morgan Carther Jordan Price Mitchell Baker Rodriguez Patel Hayes Taylor Chang Turner	Logan Chloe Harper Benjamin Zoe Elijah Samuel Avery Aria Henry Olivia Carlos Rohan Jackson Morgan Jasmine Wyatt	extraction allergy test paperwork EMERGENCY orthopedics dermatology ultrasound ophthalmology angioplasty cardiology allergy test biopsy radiotherapy EMERGENCY pneumology hematology epidermiology
++				+

7. Formulate 15 queries. (to specify what each query does)

1. ORDER THE PRICES FROM CONSULTATIONS:

SELECT name, price FROM consultations ORDER BY price;

```
mysql> SELECT name, price
    -> FROM consultations
    -> ORDER BY price;
                   price
  name
                      95
 allergy_test
  ultrasound
                     210
  EKG
                     220
  epidermiology
                     230
  dermatology
                     270
  extraction
                     325
  cardiology
                     350
  hematology
                     350
  neurology
                     350
  orthopedics
                      350
  ophthalmology
                     400
  EMERGENCY
                     435
                     435
  pneumology
  radiotherapy
                     500
  angioplasty
                    1360
                    4500
  biopsy
  abdominoplasty | 15500
17 rows in set (0.00 sec)
```

2. MAX PRICE OF CONSULTATION

SELECT MAX(price) FROM consultations;

3. FIND THE AVERAGE PRICE OF CONSULTATION

SELECT AVG(price) FROM consultations;

4. LIST AND ORDER ALPHABETICALLY THE CONSULTATIONS BETWEEN 200 AND 400

SELECT name, price FROM consultations WHERE price BETWEEN 200 and 400 ORDER BY price ASC;

```
mysql> SELECT name, price
    -> FROM consultations
    -> WHERE price BETWEEN 200 and 400
    -> ORDER BY price ASC;
 name
                  price
 ultrasound
                     210
 EKG
                     220
  epidermiology
                     230
 dermatology
                     270
 extraction
                     325
 cardiology
                     350
 hematology
                     350
 neurology
                     350
  orthopedics
                     350
  ophthalmology |
                    400
10 rows in set (0.00 sec)
```

5. COUNT THE EMERGENCIES

SELECT COUNT(*)
FROM patients
WHERE consultation_done='EMERGENCY';

```
mysql> SELECT COUNT(*)
    -> FROM patients
    -> WHERE consultation_done='EMERGENCY';
+----+
| COUNT(*) |
+----+
| 4 |
+----+
1 row in set (0.00 sec)
```

6. WHICH PEOPLE HAD AN EMERGENCY

SELECT * FROM patients WHERE consultation_done IN('EMERGENCY');

```
mysql> SELECT *
    -> FROM patients
    -> WHERE consultation_done IN('EMERGENCY');
 client_id | lastname | firstname | gender | consultation_done |
                                                                   date_of_consultation
          8
              Nuhan
                         Isabella
                                               EMERGENCY
                                                                   2023-10-04
         14
                                              EMERGENCY
                                                                   2023-07-15
              Kim
                         Grace
         15
                                                                   2023-04-13
              Murphy
                         Caleb
                                              EMERGENCY
         17
                                              EMERGENCY
                                                                   2023-12-19
              Evans
                         Mason
                                          0
4 rows in set (0.00 sec)
```

7. LIST ALL THE CONSULTATIONS DONE

SELECT name FROM consultations INNER JOIN patients
ON name = consultation done;

```
mysql> select name from consultations
    -> inner join patients
    -> on name = consultation_done;
 name
 cardiology
  dermatology
  dermatology
  EKG
  EMERGENCY
  EMERGENCY
  EMERGENCY
  EMERGENCY
  epidermiology
  epidermiology
  epidermiology
  extraction
  neurology
  neurology
  ophthalmology
  ophthalmology
  orthopedics
  radiotherapy
18 rows in set (0.00 sec)
```

8. LIST AND ORDER BY LAST NAME THE FEMALE PATIENTS

SELECT lastname, firstname FROM patients WHERE gender = 1 ORDER BY lastname ASC;

```
mysql> SELECT lastname, firstname
    -> FROM patients
    -> WHERE gender = 1
    -> ORDER BY lastname ASC;
             firstname
  lastname
  Donovan
              Ava
              Scarlett
  Foster
  Harper
              Mia
  Kim
              Grace
  Martinez
            Sophia
             Isabella
  Nuhan
  Rodriguez
             Ella
              Lilly
  Turner
  Wright
              Angela
9 rows in set (0.00 sec)
```

9. HOW MUCH DID THE PATIENTS PAY?

SELECT lastname, firstname, consultation_done, price FROM patients, consultations WHERE consultation done = name;

-> from p	oatients, com	firstname, consultat: nsultations n_done = name; 	ion_done, price
lastname	firstname	consultation_done	price
Donovan	Ava	cardiology	350
Anderson	Oliver	dermatology	270
Thompson	Lucas	dermatology	270
Harper	Mia	EKG	220
Nuhan	Isabella	EMERGENCY	435
Kim	Grace	EMERGENCY	435
Murphy	Caleb	EMERGENCY	435
Evans	Mason	EMERGENCY	435
Reynolds	Ethan	epidermiology	230
Williams	Adam	epidermiology	230
Brooks	Liam	epidermiology	230
Patel	Jackson	extraction	325
Mitchel	Noah	neurology	350
Turner	Lilly	neurology	350
Rodriguez	Ella	ophthalmology	400
Foster	Scarlett	ophthalmology	400
Wright	Angela	orthopedics	350
Martinez	Sophia	radiotherapy	500
+	t et (0.00 sec	+)	++

10. SELECT THE DATE AND TYPE OF CONSULTATION FOR CLIENT WITH ID = 4

SELECT date_of_consultation, consultation_done FROM patients WHERE client id = 4;

11. LIST AND ORDER THE NAMES OF THE DOCTORS

SELECT lastname, firstname FROM personnel WHERE position LIKE 'Doctor' ORDER BY lastname ASC, firstname ASC;

```
mysql> SELECT lastname, firstname
    -> FROM personnel
    -> WHERE position LIKE 'Doctor'
    -> ORDER BY lastname ASC, firstname ASC;
              firstname
  lastname
 Baker
              Henry
 Carther
             Elijah
 Chang
             Jasmine
 Chang
             Logan
 Mitchell
              Aria
 Morgan
             Zoe
 Patel
              Rohan
 Price
              Avery
 Rodriguez
             Carlos
 Taylor
              Morgan
 Turner
              Wyatt
 Williams
              Chloe
12 rows in set (0.00 sec)
```

12. LIST THE NAMES THAT START WITH C AND END WITH G FROM PERSONNEL

SELECT *
FROM personnel
WHERE lastname LIKE 'C%g';

```
mysql>
       SELECT *
    -> FROM personnel
    -> WHERE lastname LIKE 'C%g';
       position
                              firstname
                   lastname
                                           occupation
       Doctor
                   Chang
                              Logan
                                           extraction
                              Jasmine
       Doctor
                  Chang
                                           hematology
 rows in set (0.00 sec)
```

13. LIST AND ORDER THE PERSONNEL WHO ARE NOT DOCTORS AND WHAT THEY DO

SELECT lastname, firstname, position, occupation FROM personnel WHERE position <> 'Doctor' ORDER BY lastname ASC, firstname ASC;

-> WHERE	personnel E position <> R BY lastname	> 'Doctor' = ASC, firstname ASC	
lastname	firstname	position	occupation
Baker Hayes Jordan Rivera Stewart	Olivia Jackson Samuel Benjamin Harper	Medical assistant Medical assistant Medical assistant Medical assistant Office assistant	allergy test EMERGENCY ultrasound EMERGENCY paperwork

14. HOW MUCH DO THE DOCTORS CHARGE

SELECT lastname, firstname, price FROM personnel, consultations WHERE occupation = name;

-> from p -> where	lastname, dersonnel, co	= name;
	firstname	
	Aria Carlos	1360 4500
Baker	Henry	350
Carther	Elijah	270
Rivera	Benjamin	435
Hayes	Jackson	435
Turner	Wyatt	230
Chang	Logan	325
Chang	Jasmine	350
Price	Avery	400
Morgan	Zoe	350
Taylor	Morgan	435
Patel	Rohan	500
Jordan	Samuel	210
+	samuet et (0.00 sec	++

15. LIST THE NAMES THAT START WITH B FROM PERSONNEL

SELECT *
FROM personnel

WHERE lastname LIKE 'B%';

```
mysql> SELECT *
    -> FROM personnel
      WHERE lastname LIKE 'B%';
      position
                            lastname
                                       firstname
                                                    occupation
                                                    cardiology
  10
       Doctor
                            Baker
                                       Henry
      Medical assistant
  11
                            Baker
                                       Olivia
                                                    allergy test
 rows in set (0.00 sec)
```

BONUS:

MODIFY A RECORD:

UPDATE consultations SET price = '100' WHERE name = 'allergy test';

```
mysql> update consultations set price = '100' where name = 'allergy_test';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from consultations;
 name
                 price
                           description
 abdominoplasty
                   15500
                           procedure and recuperation
 allergy_test
                     100
                           procedure and interpretation
  angioplasty
                    1360
                           procedure and recuperation
                    4500
                           procedure
 biopsy
  cardiology
                     350
                           exam and treatment
                           examination and treatment
  dermatology
                     270
  EKG
                           procedure and interpretation
                     220
  EMERGENCY
                     435
                           examination
  epidermiology
                     230
                           control
  extraction
                     325
                           procedure
  hematology
                     350
                           consult
  neurology
                     350
                           consult
  ophthalmology
                     400
                           examination and nterpretation
  orthopedics
                     350
                           consult
  pneumology
                     435
                           consult and interpretation
                           consult and medication
  radiotherapy
                     500
  ultrasound
                     210
                           procedure and interpretation
17 rows in set (0.00 sec)
```

DELETE A RECORD:

DELETE FROM personnel WHERE lastname = 'Chang';

mysql>	select * from perso	onnel;		
id	position	lastname	firstname	occupation
+ 2 3 4 5 6 7 8 9 10 11 12 13	Doctor Office assistant Medical assistant Doctor Medical assistant Doctor Doctor Doctor Doctor Medical assistant Doctor Medical assistant Doctor Medical assistant	Williams Stewart Rivera Morgan Carther Jordan Price Mitchell Baker Baker Rodriguez Patel Hayes	Chloe Harper Benjamin Zoe Elijah Samuel Avery Aria Henry Olivia Carlos Rohan	allergy test paperwork EMERGENCY orthopedics dermatology ultrasound ophthalmology angioplasty cardiology allergy test biopsy radiotherapy EMERGENCY
15 17	Doctor Doctor	Taylor Turner	Morgan Wyatt	pneumology epidermiology
15 row			ł	 +

EMPTY A TABLE & INSERT OTHER RECORDS INTO IT

TRUNCATE TABLE personnel; SELECT * FROM personnel;

```
mysql> truncate table personnel;
Query OK, 0 rows affected (0.03 sec)
mysql> select * from personnel;
Empty set (0.00 sec)
```

```
INSERT INTO personnel (position, lastname, firstname, occupation) VALUES
('Doctor', 'Chang', 'Logan', 'extraction'),
('Doctor', 'Williams', 'Chloe', 'allergy test'),
('Office assistant', 'Stewart', 'Harper', 'paperwork'),
('Medical assistant', 'Rivera', 'Benjamin', 'EMERGENCY'),
('Doctor', 'Morgan', 'Zoe', 'orthopedics'),
('Doctor', 'Carther', 'Elijah', 'dermatology'),
('Medical assistant', 'Jordan', 'Samuel', 'ultrasound'),
('Doctor', 'Price', 'Avery', 'ophthalmology'),
('Doctor', 'Mitchell', 'Aria', 'angioplasty'),
('Doctor', 'Baker', 'Henry', 'cardiology'),
('Medical assistant', 'Baker', 'Olivia', 'allergy test'),
('Doctor', 'Rodriguez', 'Carlos', 'biopsy'),
('Doctor', 'Patel', 'Rohan', 'radiotherapy'),
('Medical assistant', 'Hayes', 'Jackson', 'EMERGENCY'),
('Doctor', 'Taylor', 'Morgan', 'pneumology'),
('Doctor', 'Chang', 'Jasmine', 'hematology'),
```

```
('Doctor', 'Turner', 'Wyatt', 'epidermiology');
```

```
mysql> INSERT INTO personnel (position, lastname, firstname, occupation) VAL
UES

-> ('Office assistant', 'Angel', 'Claire', 'paperwork'),
-> ('Doctor', 'Morgan', 'Chloe', 'allergy test'),
-> ('Doctor', 'Stewart', 'Allie', 'extraction'),
-> ('Medical assistant', 'Rivera', 'Johnas', 'EMERGENCY'),
-> ('Doctor', 'Morgan', 'Wyatt', 'orthopedics'),
-> ('Medical assistant', 'Price', 'Elijah', 'dermatology'),
-> ('Medical assistant', 'Jordan', 'Olivia', 'ultrasound'),
-> ('Office assistant', 'Henry', 'Elijah', 'appointment'),
-> ('Doctor', 'Rohan', 'Aria', 'angioplasty'),
-> ('Doctor', 'Baker', 'Carlos', 'cardiology'),
-> ('Doctor', 'Baker', 'Samuel', 'allergy test'),
-> ('Medical assistant', 'Rodriguez', 'Carlos', 'biopsy'),
-> ('Doctor', 'Patel', 'Mitchell', 'radiotherapy'),
-> ('Doctor', 'Blue', 'Jackson', 'EMERGENCY'),
-> ('Doctor', 'Taylor', 'Hayes', 'pneumology'),
-> ('Medical assistant', 'Chang', 'Jasmine', 'hematology'),
-> ('Office assistant', 'Turner', 'Zoe', 'reception');
Query OK, 17 rows affected (0.00 sec)
Records: 17 Duplicates: 0 Warnings: 0
```

SELECT * FROM personnel;

id	position	lastname	firstname	occupation
1	Office assistant	Angel	Claire	paperwork
2	Doctor	Morgan	Chloe	allergy test
3	Doctor	Stewart	Allie	extraction
4	Medical assistant	Rivera	Johnas	EMERGENCY
5	Doctor	Morgan	Wyatt	orthopedics
6	Medical assistant	Price	Elijah	dermatology
7	Medical assistant	Jordan	Olivia	ultrasound
8	Office assistant	Henry	Elijah	appointment
9	Doctor	Rohan	Aria	angioplasty
10	Doctor	Baker	Carlos	cardiology
11	Doctor	Baker	Samuel	allergy test
12	Medical assistant	Rodriguez	Carlos	biopsy
13	Doctor	Patel	Mitchell	radiotherapy
14	Doctor	Blue	Jackson	EMERGENCY
15	Doctor	Taylor	Hayes	pneumology
16	Medical assistant	Chang	Jasmine	hematology
17	Office assistant	Turner	Zoe	reception

INSERT A NEW COLUMN INTO 1 OF 2 EXISTING TABLES

ALTER TABLE patients

ADD COLUMN phone_number int(10)

AFTER firstname;

```
mysql> alter table patients
     -> add column phone_number int(10)
     -> after firstname;
Query OK, 0 rows affected, 1 warning (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

SELECT * FROM patients;

Field	Туре	Null	Key	Default	Extra
client_id	int	NO	PRI	NULL	auto_increment
lastname	char(20)	NO		NULL	
firstname	char(20)	NO		NULL	
phone_number	int	YES		NULL	
gender	int	NO		NULL	
consultation_done	char(20)	YES	MUL	NULL	
date_of_consultation	date	NO		NULL	

