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| Nombre del Maestro(a): Ariadna Derbez | Calificación: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |
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| Nombre de Alumno(a): Victor Manuel Galvan Covarrubias | |  | Fecha: | 20/08/2020 |

**Perform the following instructions:**

1. Create a database called hospital

2. Create a table called floor with the following attributes (floor\_id integer auto incrementing primary key, alphanumeric plant name (20), number\_beds integer).

3. Create a table called bed with the following attributes (bed\_id integer auto incrementing primary key, num\_cam integer).

4. Create a table called patient with the following attributes (auto-incrementing primary key integer insurance\_id, alphanumeric name (20), alphanumeric last name (20), f\_birth date, integer age).

5. Create a table called BedAlocation with the following attributes (Bed\_id integer auto incrementing primary key, f\_date input).

6. Create a table called doctor with the following attributes (medical\_id integer auto incrementing primary key, alphanumeric name (20), alphanumeric last name (20)).

7. Create a table called queries with the following attributes (query\_id integer auto incrementing primary key, alphanumeric diagnosis (20), f\_ query date).

8. Create a table called history with the following attributes (auto incrementing primary key integer history\_id, f\_input date, f\_output date).

9. Record 4 in the floor table.

10. Record 4 in the beds table.

11. Register 4 in the patients table.

12. Record 4 in the Bed Assignment table.

13. Record 4 on the doctor table.

14. Register 4 in the queries table.

15. Record 4 in the history table.

16. Create a foreign key that relates the bed and floor tables.

17. Create a foreign key that relates the tables AssignacionCama and bed.

18. Create a foreign key that relates the Bed Assignment and History tables.

19. Create a foreign key that relates the history and patient tables.

20. Create a foreign key that relates the query and BedAlocation tables.

21. Create a foreign key that relates the consultation and doctor tables.

22. Change the doctor's last name with id = 3.

23. Delete the last name column from the doctor table.

24. Shows the name of the patient who is greater than 25.

25. Shows the various diagnostics.

26. Shows the last name and age from the patient table, sorting them in ascending order.

27. Shows the doctor's id and the date of the consultation.

28. Eliminate the floor table.

29. Delete 2 records from the patient table.

30. Delete the database.

**Realiza las siguientes instrucciones:**

1. Crea una base de datos llamada hospital
2. Crea una tabla llamada planta con los siguientes atributos (id\_planta entero llave primaria auto incrementable, nombre de la planta alfanumérico (20), numero\_camas entero).
3. Crea una tabla llamada cama con los siguientes atributos (id\_cama entero llave primaria auto incrementable, num\_cam entero).
4. Crea una tabla llamada paciente con los siguientes atributos (id\_seguro entero llave primaria auto incrementable, nombre alfanumérico (20), apellido alfanumérico (20), f\_nacimiento date, edad entero).
5. Crea una tabla llamada AsignacionCama con los siguientes atributos (id\_Acama entero llave primaria auto incrementable,f\_entrada date).
6. Crea una tabla llamada médico con los siguientes atributos (id\_medico entero llave primaria auto incrementable, nombre alfanumérico (20), apellido alfanumérico (20)).
7. Crea una tabla llamada consultas con los siguientes atributos (id\_consulta entero llave primaria auto incrementable, diagnostico alfanumérico (20), f\_consulta date).
8. Crea una tabla llamada historial con los siguientes atributos (id\_historial entero llave primaria auto incrementable, f\_entrada date, f\_salida date).
9. Registra 4 en la tabla planta.
10. Registra 4 en la tabla camas.
11. Registra 4 en la tabla pacientes.
12. Registra 4 en la tabla AsignacionCama.
13. Registra 4 en la tabla médico.
14. Registra 4 en la tabla consultas.
15. Registra 4 en la tabla historial.
16. Crea una llave foránea que relacione las tablas cama y planta.
17. Crea una llave foránea que relacione las tablas AsignacionCama. y cama.
18. Crea una llave foránea que relacione las tablas AsignacionCama e historial.
19. Crea una llave foránea que relacione las tablas historial y paciente.
20. Crea una llave foránea que relacione las tablas consulta y AsignacionCama.
21. Crea una llave foránea que relacione las tablas consulta y médico.
22. Cambia el apellido del médico con id = 3.
23. Elimina la columna de apellido de la tabla médico.
24. Muestra el nombre del paciente que sea mayor a 25.
25. Muestra los distintos diagnósticos.
26. Muestra el apellido y la edad de la tabla paciente ordenándolos de manera ascendente.
27. Muestra el id del médico y la fecha de la consulta.
28. Elimina la tabla planta.
29. Elimina 2 registros de la tabla paciente.
30. Elimina la base de datos.

CREATE DATABASE hospital;

USE hospital;

CREATE TABLE floor\_(

floor\_id int auto\_increment PRIMARY KEY,

plant\_name varchar(20),

number\_beds int

);

CREATE TABLE bed(

bed\_id int auto\_increment PRIMARY KEY,

num\_cam int

);

CREATE TABLE patient(

insurance\_id int auto\_increment PRIMARY KEY,

nam varchar(20),

last\_name varchar (20),

f\_birth date,

age int

);

CREATE TABLE bedAlocation(

bedA\_id int auto\_increment PRIMARY KEY,

f\_input date

);

CREATE TABLE doctor(

medical\_id int auto\_increment PRIMARY KEY,

nam varchar(20),

last\_name varchar(20)

);

CREATE TABLE queries(

query\_id int auto\_increment PRIMARY KEY,

diagnosis varchar (20),

f\_query date

);

CREATE TABLE history\_(

history\_id int auto\_increment PRIMARY KEY,

f\_input date,

f\_output date

);

INSERT INTO floor\_(plant\_name, number\_beds)

VALUES ('A',8);

INSERT INTO floor\_(plant\_name, number\_beds)

VALUES ('B',6);

INSERT INTO floor\_(plant\_name, number\_beds)

VALUES ('C',4);

INSERT INTO floor\_(plant\_name, number\_beds)

VALUES ('D',2);

INSERT INTO bed(num\_cam)

VALUES (10);

INSERT INTO bed(num\_cam)

VALUES (20);

INSERT INTO bed(num\_cam)

VALUES (30);

INSERT INTO bed(num\_cam)

VALUES (40);

INSERT INTO patient(nam, last\_name, f\_birth, age)

VALUES ('Luis', 'Perez', '2000-7-04',20);

INSERT INTO patient(nam, last\_name, f\_birth, age)

VALUES ('Juan', 'Perez', '2000-7-04',20);

INSERT INTO patient(nam, last\_name, f\_birth, age)

VALUES ('Pepe', 'Perez', '2000-7-04',20);

INSERT INTO patient(nam, last\_name, f\_birth, age)

VALUES ('Maria', 'Perez', '1980-7-04',40);

INSERT INTO bedAlocation(f\_input)

VALUES ('2020-7-23');

INSERT INTO bedAlocation(f\_input)

VALUES ('2020-7-26');

INSERT INTO bedAlocation(f\_input)

VALUES ('2020-7-29');

INSERT INTO bedAlocation(f\_input)

VALUES ('2020-7-31');

INSERT INTO doctor(nam, last\_name)

VALUES ('Refugio', 'Garcia');

INSERT INTO doctor(nam, last\_name)

VALUES ('Esteban', 'Lopez');

INSERT INTO doctor(nam, last\_name)

VALUES ('Julion', 'Miramar');

INSERT INTO doctor(nam, last\_name)

VALUES ('Pedro', 'Zazueta');

INSERT INTO queries(diagnosis, f\_query)

VALUES ('Flu','2020-10-11');

INSERT INTO queries(diagnosis, f\_query)

VALUES ('Diabetes','2020-10-14');

INSERT INTO queries(diagnosis, f\_query)

VALUES ('COVID-19','2020-10-17');

INSERT INTO queries(diagnosis, f\_query)

VALUES ('Appendicitis','2020-10-23');

INSERT INTO history\_( f\_input ,f\_output)

VALUES ('2019-10-23','2020-11-23');

INSERT INTO history\_( f\_input ,f\_output)

VALUES ('2019-10-23','2020-11-23');

INSERT INTO history\_( f\_input ,f\_output)

VALUES ('2019-10-23','2020-11-23');

INSERT INTO history\_( f\_input ,f\_output)

VALUES ('2019-10-23','2020-11-23');

ALTER TABLE floor\_

ADD CONSTRAINT fk\_bed\_floor

FOREIGN KEY (floor\_id)

REFERENCES bed (bed\_id);

ALTER TABLE bed

ADD CONSTRAINT fk\_bed\_Alocation

FOREIGN KEY (bed\_id)

REFERENCES bedAlocation (bedA\_id);

ALTER TABLE history\_

ADD CONSTRAINT fk\_bedAlocation\_history

FOREIGN KEY (history\_id)

REFERENCES bedAlocation (bedA\_id);

ALTER TABLE history\_

ADD CONSTRAINT fk\_patient\_history

FOREIGN KEY (history\_id)

REFERENCES patient (insurance\_id);

ALTER TABLE bedAlocation

ADD CONSTRAINT fk\_bedAlocation\_query

FOREIGN KEY (bedA\_id)

REFERENCES queries (query\_id);

ALTER TABLE doctor

ADD CONSTRAINT fk\_query\_doctor

FOREIGN KEY (medical\_id)

REFERENCES queries (query\_id);

UPDATE doctor

SET last\_name='Maximiliano'

WHERE medical\_id=3;

ALTER TABLE doctor

DROP last\_name;

SELECT nam FROM patient

WHERE age>25;

SELECT diagnosis FROM queries;

SELECT last\_name, age FROM patient

ORDER BY age ASC;

SELECT medical\_id FROM doctor

UNION

SELECT f\_query FROM queries;

DROP TABLE floor\_;

DELETE FROM patient WHERE insurance\_id=4;

DELETE FROM patient WHERE insurance\_id=3;

DROP DATABASE hospital;