

Database Of Project

Melissa Nguyen

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Task 1 Create tables, indexes and Constraints

cmd line

```
mysql> CREATE TABLE userInfo(
  -> u_id VARCHAR(30) NOT NULL,
  -> f_name VARCHAR(30) NOT NULL,
  -> l_name VARCHAR(30) NOT NULL,
  -> u_password VARCHAR(30) NOT NULL,
  -> u_dj DATE NOT NULL,
  -> PRIMARY KEY (u_id));
Query OK, 0 rows affected (0.01 sec)
```

allergy name allergy id

create the allergic to table include allergyid and userid

create all the tables that inherit from allergens environment etc.

```
mysql> CREATE TABLE Allergens(
  -> allergy_id INT,
  -> PRIMARY KEY(allergy_id)
  -> );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> ALTER TABLE Environmental add constraint FOREIGN KEY(envi_id)
references Allergens(allergy_id);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE TABLE Environmental(
  -> envi_id int references Allergens,
  -> envi_name VARCHAR(30),
  -> PRIMARY KEY(envi_id));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> CREATE TABLE EnviLocation(
  -> loc_id INT references Environmental,
  -> loc_name VARCHAR(30),
  -> PRIMARY KEY(loc_id));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> alter table EnviLocation add constraint FOREIGN KEY(loc_id)
references Environmental(envi_id);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE TABLE food_allergies(
-> food_id int references Allergens,
-> food_name Varchar(30) NOT NULL,
-> PRIMARY KEY(food_id));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> ALTER TABLE food_allergies add constraint FOREIGN KEY(food_id)
references Allergens(allergy_id);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE TABLE product_allergies(
-> pname VARCHAR(30),
-> pnameid int references Allergens,
-> PRIMARY KEY(pnameid));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> alter table product_allergies add constraint FOREIGN
KEY(pnameid) references Allergens(allergy_id);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
PRIMARY KEY(merchId))' at line 3
mysql> CREATE TABLE merch(
-> merchname VARCHAR(30) NOT NULL,
-> merch_id int references product_allergies,
-> PRIMARY KEY(merch_id));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> ALTER TABLE merch add constraint FOREIGN KEY(merch_id)
references product_allergies(pnameid);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE TABLE medical_allergies(
    -> med_name VARCHAR(30),
    -> med_id int references Allergens,
    -> PRIMARY KEY(med_id));
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> ALTER TABLE medical_allergies add constraint FOREIGN
KEY(med_id) references Allergens(allergy_id);
```

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> CREATE TABLE drug_allergies(
    -> drug_name VARCHAR(30),
    -> drug_id int references medical_allergies(medical_id),
    -> PRIMARY KEY(drug_id));
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> ALTER TABLE drug_allergies add constraint FOREIGN KEY(drug_id)
references medical_allergies(med_id);
```

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> show tables;
```

```
+-----+
| Tables_in_allergydata |
+-----+
| Allergens              |
| drug_allergies         |
| EnviLocation           |
| Environmental          |
| food_allergies         |
| medical_allergies      |
| merch                  |
| product_allergies      |
| userInfo               |
+-----+
```

9 rows in set (0.00 sec)

```
mysql>
```

tables

```
mysql> describe Allergens
-> ;
```

Field	Type	Null	Key	Default	Extra
allergy_id	int	NO	PRI	NULL	

1 row in set (0.01 sec)

```
mysql> describe drug_allergies
-> ;
```

Field	Type	Null	Key	Default	Extra
drug_name	varchar(30)	YES		NULL	
drug_id	int	NO	PRI	NULL	

2 rows in set (0.00 sec)

```
mysql> describe EnviLocation;
```

Field	Type	Null	Key	Default	Extra
loc_id	int	NO	PRI	NULL	
loc_name	varchar(30)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> describe Environmental;
```

Field	Type	Null	Key	Default	Extra
envi_id	int	NO	PRI	NULL	
envi_name	varchar(30)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> describe food_allergies;
```

Field	Type	Null	Key	Default	Extra
food_id	int	NO	PRI	NULL	
food_name	varchar(30)	NO		NULL	

2 rows in set (0.00 sec)

```
mysql> describe medical_allergies;
```

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

```

+-----+-----+-----+-----+-----+
| med_name | varchar(30) | YES | | NULL | |
| med_id   | int         | NO  | PRI | NULL | |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

```
mysql> describe merch;
```

```

+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| merchname  | varchar(30)   | NO   |     | NULL    |       |
| merch_id   | int           | NO   | PRI | NULL    |       |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

```
mysql> describe product_allergies;
```

```

+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| pname      | varchar(30)   | YES  |     | NULL    |       |
| pnameid    | int           | NO   | PRI | NULL    |       |
+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

```

```
mysql> describe userInfo;
```

```

+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| u_id       | varchar(30)   | NO   | PRI | NULL    |       |
| f_name     | varchar(30)   | NO   |     | NULL    |       |
| l_name     | varchar(30)   | NO   |     | NULL    |       |
| u_password | varchar(30)   | NO   |     | NULL    |       |
| u_dj       | date          | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

indexes:

index listing all the first and last names of the users

```

mysql> CREATE INDEX in_name
      -> ON userInfo(f_name, l_name);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

```

```
mysql> ALTER TABLE Allergens add column allergy_name VARCHAR(30);
```

index on allergens for different allergies

```
mysql> CREATE INDEX allergy_index
      -> ON Allergens(allergy_name);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Task 2 Collect and import data**1) userInfo**

```
mysql> INSERT INTO userInfo ( u_id, f_name, l_name, u_password, u_dj )
      -> VALUES ('1', 'melissa', 'ngueyn', '123', '2020-04-20');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO userInfo ( u_id, f_name, l_name, u_password, u_dj )
      -> VALUES ('2', 'loc', 'nguyen', '123', '2020-03-20');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO userInfo ( u_id, f_name, l_name, u_password, u_dj )
      -> VALUES ('3' , 'aurpon', 'gupta', '987', '2020-02-12');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO userInfo ( u_id, f_name, l_name, u_password, u_dj )
      -> VALUES ('4' , 'melisssa', 'endang', '567', '2020-03-14');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM userInfo;
```

u_id	f_name	l_name	u_password	u_dj
1	melissa	ngueyn	123	2020-04-20
2	loc	nguyen	123	2020-03-20
3	aurpon	gupta	987	2020-02-12
4	melisssa	endang	567	2020-03-14

```
4 rows in set (0.00 sec)
```

2) Allergens

```
      -> SET allergy_name = 'Dairy'
      -> where allergy_id = '1';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> UPDATE Allergens
```



```

-> SET allergy_name = 'Nuts'
-> where allergy_id = '2';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

```

```

mysql> UPDATE Allergens
-> SET allergy_name = 'gluten'
-> where allergy_id = '3';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

```

```

mysql> UPDATE Allergens
-> SET allergy_name = 'eggs'
-> where allergy_id = '4';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

```

```
mysql> SELECT * FROM Allergens;
```

allergy_id	allergy_name
1	Dairy
4	eggs
3	gluten
2	Nuts

3) environmental

```

mysql> INSERT INTO Environmental( envi_id, envi_name)
-> VALUES ( '1' , 'beach');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO Environmental( envi_id, envi_name)
-> VALUES( '2', 'trails');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO Environmental( envi_id, envi_name)
-> VALUES('3', 'pollen');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO Environmental( envi_id, envi_name)
-> VALUES( '4', 'seasonal');
Query OK, 1 row affected (0.00 sec)

```

```
mysql> SELECT * FROM Environmental;
```

envi_id	envi_name
1	beach
2	trails
3	pollen
4	seasonal

4) EnviLocation

```
mysql> INSERT INTO EnviLocation( loc_id, loc_name)
-> VALUES(1, 'MERCED');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO EnviLocation( loc_id, loc_name)
-> VALUES(2, 'BALBOA');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO EnviLocation(loc_id, loc_name)
-> VALUES(3, 'MISSION');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO EnviLocation(loc_id, loc_name)
-> VALUES(4, 'OCEAN');
```

```
Query OK, 1 row affected (0.00 sec)
```

5) food

```
mysql> INSERT INTO food_allergies(food_id, food_name)
-> VALUES(1, 'BURGERS');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO food_allergies(food_id, food_name)
-> VALUES(2, 'BROCOLI');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO food_allergies(food_id, food_name)
-> VALUES(3, 'APPLES');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO food_allergies(food_id, food_name)
-> VALUES(4, 'YAMS');
```

```
Query OK, 1 row affected (0.01 sec)
```

6) products

```
mysql> INSERT INTO product_allergies( pnameid, pname)
      -> VALUES( 1, 'CLOROX');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO product_allergies( pnameid, pname)
      -> VALUES(2, 'DEODORANT');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO product_allergies( pnameid, pname)
      -> VALUES(3, 'LOTION');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO product_allergies( pnameid, pname)
      -> VALUES(4, 'SHAMPOO');
```

```
Query OK, 1 row affected (0.00 sec)
```

7) merch

```
mysql> INSERT INTO merch(merch_id, merchname)
      -> VALUES( 1, 'MAKEUP');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO merch(merch_id, merchname)
      -> VALUES( 2, 'NAIL POLISH');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO merch(merch_id, merchname)
      -> VALUES(3, 'WOOL');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO merch(merch_id, merchname)
      -> VALUES(4, 'COTTON');
```

```
Query OK, 1 row affected (0.00 sec)
```

8) medical

```
mysql> INSERT INTO medical_allergies(med_id, med_name)
      -> VALUES(1, '111');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO medical_allergies(med_id, med_name)
      -> VALUES(2, '222');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO medical_allergies(med_id, med_name)
```

```
-> VALUES(3, '333');  
Query OK, 1 row affected (0.01 sec)  
  
mysql> INSERT INTO medical_allergies(med_id, med_name)  
      -> VALUES(4, '444');  
Query OK, 1 row affected (0.00 sec)
```

9) drugs

```
mysql> INSERT INTO drug_allergies(drug_id, drug_name)  
      -> VALUES( 1, 'ADVIL');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO drug_allergies(drug_id, drug_name)  
      -> VALUES( 2, 'PEPTO');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO drug_allergies(drug_id, drug_name)  
      -> VALUES(3, 'TYLENOL');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO drug_allergies(drug_id, drug_name)  
      -> VALUES(4, 'MARIJUANA');  
Query OK, 1 row affected (0.00 sec)
```

Task 3 Queries

I had a lot of trouble figuring out the queries for our database
I tried many different ways but I kept getting errors. So I believe my problem with my database
is that I need to include a counting variable.

Since my db didn't really have any math I needed to enter more data but it took a while to
figure the inheritance out that in order for me to be able to work out