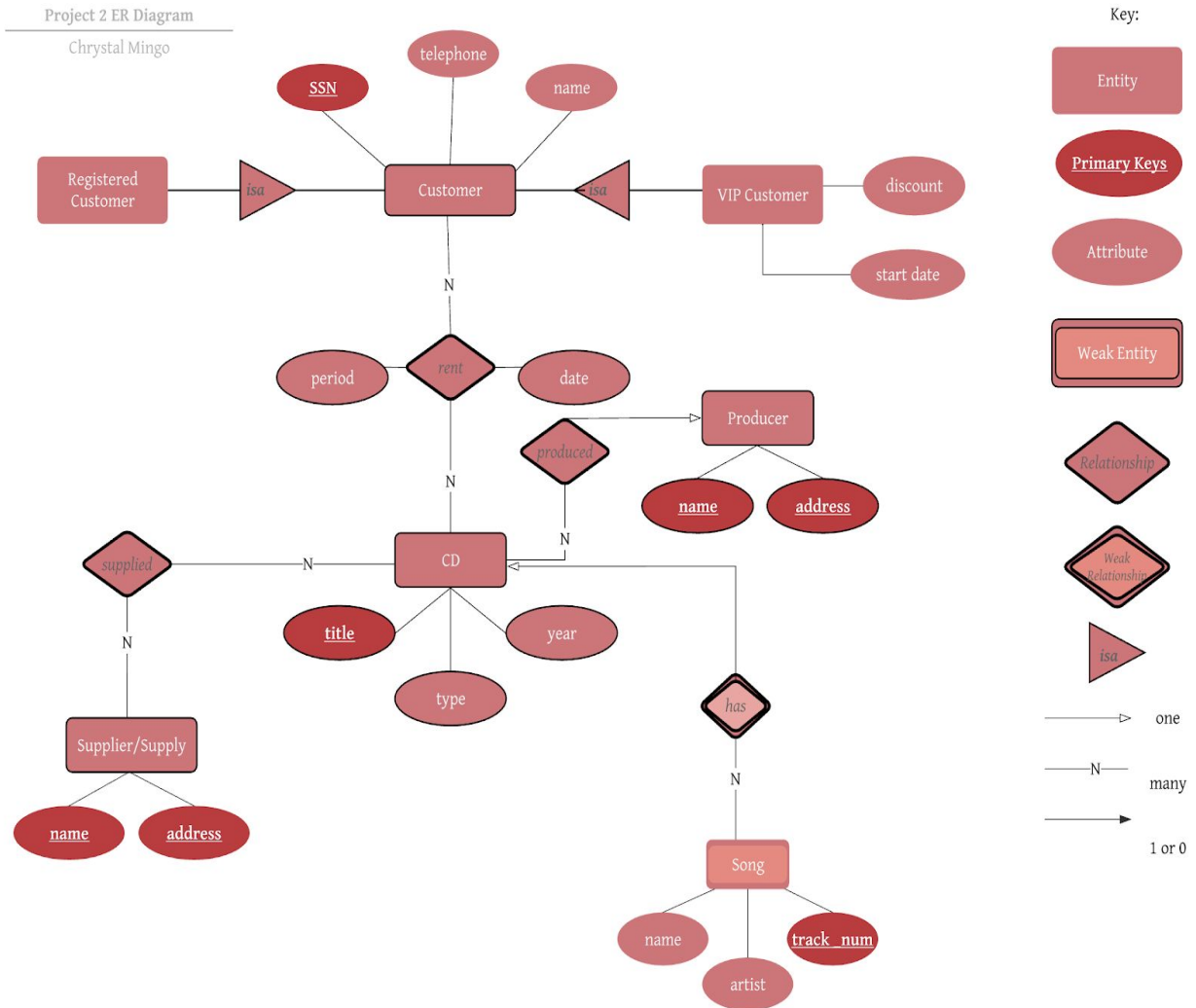


Chrystal Mingo
Databases - CSC 33600
Project 2

Task 1: Entity-Relation Diagram



Task 2: SQL statements

*** Note: I made my SQL Tables in php, you can find my code in the file **tables.php**

CD:

```
CREATE TABLE CD(
    title VARCHAR(255),
    year DATE,
    type VARCHAR(255),
    PRIMARY KEY(title));
```

Supplier/Supply:

```
CREATE TABLE Supply(  name VARCHAR(255),  
                        address VARCHAR(255),  
                        PRIMARY KEY(name,address));
```

Producer:

```
CREATE TABLE Producer( name VARCHAR(255),  
                         address VARCHAR(255),  
                         PRIMARY KEY(name,address));
```

Customer:

```
CREATE TABLE Customer( name VARCHAR(255),  
                        SSN INTEGER,  
                        telephone INTEGER,  
                        PRIMARY KEY(SSN));
```

VIP Customer:

```
CREATE TABLE VIP_Customer( name VARCHAR(255),  
                             SSN INTEGER,  
                             telephone INTEGER,  
                             start_date DATE,  
                             discount INTEGER,  
                             PRIMARY KEY(SSN),  
                             FOREIGN KEY(SSN) REFERENCES Customer(SSN));
```

Regular Customer:

```
CREATE TABLE Regular_Customer( name VARCHAR(255),  
                                 SSN INTEGER,  
                                 telephone INTEGER,  
                                 PRIMARY KEY(SSN),  
                                 FOREIGN KEY(SSN) REFERENCES Customer(SSN));
```

Song:

```
CREATE TABLE Song (  name VARCHAR(255),  
                      artist VARCHAR(255),  
                      track_num INTEGER,  
                      title VARCHAR(255),  
                      PRIMARY KEY(track_num, title),  
                      FOREIGN KEY(title) REFERENCES CD(title));
```

Rent:

```
CREATE TABLE Rent (  SSN INTEGER,  
                      title VARCHAR(255),
```

date DATE,
period INTEGER,
PRIMARY KEY(SSN, title)
FOREIGN KEY(SSN) REFERENCES Customer(SSN),
FOREIGN KEY(title) REFERENCES CD(title));

Supplied:

```
CREATE TABLE Supplied ( name VARCHAR(255),  
                        address VARCHAR(255),  
                        title VARCHAR(255),  
                        PRIMARY KEY(name, address)  
                        FOREIGN KEY(name, address) REFERENCES  
                        Supply(name, address),  
                        FOREIGN KEY(title) REFERENCES CD(title));
```

Produced:

```
CREATE TABLE Produced (name VARCHAR(255),  
                        address VARCHAR(255),  
                        title VARCHAR(255),  
                        PRIMARY KEY(name, address)  
                        FOREIGN KEY(name, address) REFERENCES  
                        Producer(name, address),  
                        FOREIGN KEY(title) REFERENCES CD(title));
```

Task 3: A menu-drive program using php for each query:

[Home Page:](#)

Chrystal Mingo

Database

Project 2

[Click me to access Query One](#)
[Click me to access Query Two](#)
[Click me to access Query Three](#)
[Click me to access Query Four](#)
[Click me to access Query Five](#)
[Click me to access Query Six](#)

This page has every link to the 6 query solutions!

***Found in <http://www-cs.ccny.cuny.edu/~ming3954/proj2/home.php>

1) Insert a producer

Chrystal Mingo

Query One

Producers

Name	Address
Chrystal Mingo	120 Vermilyea
Esther Webster	Tortola the Island Gyal
Interscope Records	2220 Colorado Ave, Santa Monica, CA
Neyda Bocio	2415 Creston Ave
Sabrina Reyes	2727 University Ave

Add Producer

Name:

Address

For this query I specifically followed proj0's format to add to producers. I already have a few examples, you can add more yourself by going to

<http://www-cs.ccny.cuny.edu/~ming3954/proj2/query1.php>

2) Insert a CD supplied by a particular supplier and produced by a particular producer

Query 2 Result:

CD Table

Name	Year	CD
Tory Lanez - Chixtape 5	2019	R&B/Soul

Produced Table

Name	Address	Title
Interscope Records	2220 Colorado Ave, Santa Monica, CA	Tory Lanez - Chixtape 5

Supplied Table

Name	Address	Title
Disc Makers	150 W 25th St, New York, NY, 10001	Tory Lanez - Chixtape 5

For this query I just inputted my own values from php, and did basic table design using html. I show cased the CD table, Produced Table, and Supplied table. As you can see the CD name is

found in Produced and Supplied Title. You can find this page at <http://www-cs.ccny.cuny.edu/~ming3954/proj2/query2.php>

3) Insert a regular-customer borrowing a particular CD

Query 3 Result:

Regular Customer Table

Name	SSN	Telephone
Chrystal Mingo	207174223	1347987423

Rent Table

SSN	Title	Date	Period
207174223	Tory Lanez - Chixtape 5	2019-11-12	10
478234567	Tory Lanez - Chixtape 5	2019-11-10	15

For this query I just inputted my own values in my php file, and did basic table design using html. I show cased the Regular Customer table and Rent Table. As you can see the Regular Customer - Chrystal Mingo is found in Rent because of her SSN, which displays which specific CD she is borrowing. You can find this page at <http://www-cs.ccny.cuny.edu/~ming3954/proj2/query3.php>

4) 1) Insert a VIP customer borrowing a particular CD

Query 4 Result:

VIP Customer Table

Name	SSN	Telephone	Start Date	Discount
Esther Webster	478234567	1555555555	2019-06-10	25

Rent Table

SSN	Title	Date	Period
207174223	Tory Lanez - Chixtape 5	2019-11-12	10
478234567	Tory Lanez - Chixtape 5	2019-11-10	15

For this query I just inputted my own values in my php file, and did basic table design using html. I show cased the VIP Customer table and Rent Table. As you can see the VIP Customer - Esther Webster is found in Rent because of her SSN and you can see the particular CD she is borrowing, and the period, as well as her start date, and discount. You can find this page at <http://www-cs.ccny.cuny.edu/~ming3954/proj2/query4.php>

5) Find names and Tel# of all customers who borrowed a particular CD and are supposed to return by a particular date.

Query 5 Result:

Name	Telephone	Date
Chrystal Mingo	1347987423	2019-11-22

Rent Table

SSN	Title	Date	Period
207174223	Tory Lanez - Chixtape 5	2019-11-12	10
478234567	Tory Lanez - Chixtape 5	2019-11-10	15

Customer Table

Name	SSN	Telephone
Chrystal Mingo	207174223	1347987423
Esther Webster	478234567	1555555555

For this specific query I looked at the Customer Table, found the specific Customer name and telephone - Chrystal Mingo 1347987423, based off of her SSN we can look at the Rent table to see what the Customer specifically rented and the date, and period. Using the date and period I used the date add function to figure out the return date of a specific Customer. You can find this page at <http://www-cs.ccny.cuny.edu/~ming3954/proj2/query5.php>

6) List producers information who produce CD of a particular artist released in a particular year.

Query 6 Result:

Name	Address
Interscope Records	2220 Colorado Ave, Santa Monica, CA

Produce Table

Name	Address	Title
Interscope Records	2220 Colorado Ave, Santa Monica, CA	Tory Lanez - Chixtape 5

Song Table

Name	Artist	Track Number	CD Title
The Trade	Tory Lanez ft. Jagged Edge & Jermay	2	Tory Lanez - Chixtape 5

For this specific query I needed to look for the specific Cd title, based off of that title find the producer name and address and display that information. You can find this page at <http://www-cs.ccny.cuny.edu/~ming3954/proj2/query6.php>