# Project 2 Part 3

# Answer each of the following questions in **BLUE** colored font.

#### **Project:**

Include name of the team members.

#### Ty Painter & Tonnar Castellano

What is the general status of the project? Describe the roadblocks (if you have any) 3-4 sentences.

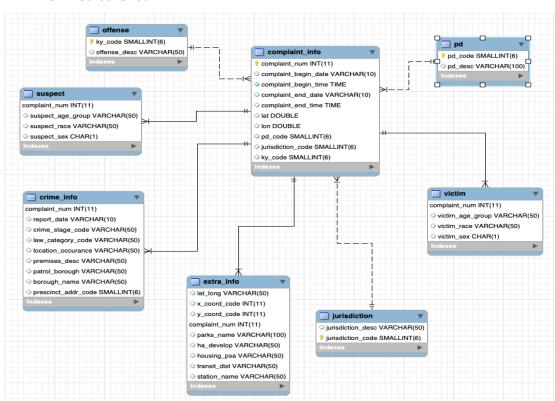
Our project is on track. We encountered some roadblocks handling dirty data within our data set. We decided to create a dirty\_data table to remove NULL/duplicate primary key values. We are currently having trouble creating a trigger to accept proper date values.

#### **Database:**

By this assignment submission date, you should have your decomposition completed with all the tables ready in database. You should have also implemented many of the advanced features. Clearly label the screenshots.

Include the UML screenshot.

#### **UML** screenshot



Include the screenshots of decomposed tables.

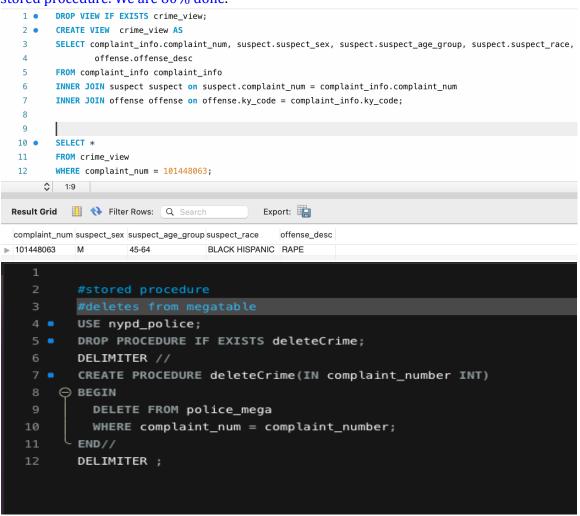
decomposed tables

```
######## normalized tables ########
  # create offense table
  DROP TABLE IF EXISTS offense;
  CREATE TABLE IF NOT EXISTS offense
      ky_code
                                   SMALLINT.
      offense_desc
                                   VARCHAR(50),
      PRIMARY KEY (ky_code)
 ) ENGINE=INNODB;
  # create pd table
  DROP TABLE IF EXISTS pd;
  CREATE TABLE IF NOT EXISTS pd
      pd_code
                                   SMALLINT.
                                   VARCHAR(100),
      pd_desc
      PRIMARY KEY (pd_code)
 ) ENGINE=INNODB;
 # create jurisdiction table
 DROP TABLE IF EXISTS jurisdiction;
 CREATE TABLE IF NOT EXISTS jurisdiction
) (
      jurisdiction_desc VARCHAR(50),
      jurisdiction code
                                   SMALLINT,
      PRIMARY KEY (jurisdiction code)
- ) ENGINE=INNODB;
# create suspect table
DROP TABLE IF EXISTS suspect;
CREATE TABLE IF NOT EXISTS suspect
   complaint_num
                   INT,
   suspect_age_group
                   VARCHAR(50),
   suspect_race
                   VARCHAR(50),
   suspect_sex
                   CHAR(1),
   PRIMARY KEY (complaint_num),
   CONSTRAINT suspect_fk_complaint_num
     FOREIGN KEY (complaint num) REFERENCES complaint info (complaint num)
     ON UPDATE CASCADE
     ON DELETE RESTRICT
) ENGINE=INNODB;
```

```
# create complaint_info table
DROP TABLE IF EXISTS complaint_info;
CREATE TABLE IF NOT EXISTS complaint_info
    complaint_num
                           INT,
    complaint_begin_date
                           VARCHAR(10),
                                               NOT NULL,
    complaint_begin_time
                           TIME
    complaint_end_date
                           VARCHAR(10),
    complaint_end_time
                           TIME,
    lat
                           DOUBLE,
                           DOUBLE,
    lon
                           SMALLINT,
    pd_code
                           SMALLINT,
    jurisdiction_code
    ky_code
                           SMALLINT,
    PRIMARY KEY (complaint_num),
    CONSTRAINT pd_fk_complaint
        FOREIGN KEY (pd_code) REFERENCES pd (pd_code),
    CONSTRAINT jurisdiction_fk_complaint
        FOREIGN KEY (jurisdiction_code) REFERENCES jurisdiction (jurisdiction_code),
    CONSTRAINT offense_fk_complaint
        FOREIGN KEY (ky_code) REFERENCES offense (ky_code)
) ENGINE=INNODB;
    x_coord_code
                              INT,
    y_coord_code
                              INT,
    complaint_num
                              INT,
                              VARCHAR(100),
    parks_name
    ha_develop
                              VARCHAR(50),
                              VARCHAR(50),
    housing_psa
    transit_dist
                              VARCHAR(50),
    station_name
                              VARCHAR(50),
    PRIMARY KEY (complaint_num),
    CONSTRAINT location_fk_complaint_num
        FOREIGN KEY (complaint_num) REFERENCES complaint_info (complaint_num)
        ON UPDATE CASCADE
        ON DELETE RESTRICT
) ENGINE=INNODB;
# create victim table
DROP TABLE IF EXISTS victim:
CREATE TABLE IF NOT EXISTS victim
(
    complaint_num
                              INT,
    victim_age_group
                              VARCHAR(50),
    victim_race
                              VARCHAR(50),
    victim_sex
                              CHAR(1),
    PRIMARY KEY (complaint_num),
    CONSTRAINT victim_fk_complaint_num
        FOREIGN KEY (complaint_num) REFERENCES complaint_info (complaint_num)
        ON UPDATE CASCADE
        ON DELETE RESTRICT
) ENGINE=INNODB;
```

Include screenshots of your implementation of some advanced features (Stored procedures, views, triggers etc.) In terms of percentage how much you think you have completed on database side of the project? Describe the completed work in 2-3 sentences. Describe roadblocks, if any.

We are through most of the advanced features. We would like to add a trigger and and another stored procedure. We are 80% done.



#### Front end:

By this assignment submission date, you should have a working interface showing data from the database in live connection. You should also have multiple UI pages. Clearly label the screenshots.

Attach screenshots of the browser showing different UI pages. (At least 2 excluding home page)

### UI Page 1



# UI Page 2

#### Home Search Crime Delete Crime

### **Delete a Movie**

| complaint_num of crime          |              |
|---------------------------------|--------------|
|                                 | Delete Movie |
| Crime was deleted successfully. |              |

Home Search Crime Delete Crime

# **Search Crime by Complaint Number**

Complaint Number

Submit

Sorry, no results found for complaint\_num .

Attach screenshots of relevant part of your front-end code showing calls to the database. This can be embedded SQL statements or calls to procedures etc.

#### Call to delete a crime

```
<
```

#### Call to search a crime

```
<a href="index.html">Home</a>
<a href="getCrime.php">Search Crime</a>
<a href="deleteCrime.php">Search Crime</a></a></a></a></a>
<a href="deleteCrime.php">Search Crime</a>
<a href="deleteCrime.php">Search Dise</a>
<a href="deleteCrime.php">Search Crime</a>
<a href="deleteCrime.php">Search Dise</a>
<a href="delete
```

```
</-- For each row saved in the $result variable ... -->

<p
```

Have you implemented any DML components (INSERT, UPDATE, DELETE) yet in your project (Note that you must have DML components in the final version of your project).

As seen above we have included a delete statement in the crime database. We still need to do the insert and update. However, given that we have figured out how to delete that should be much simpler. We estimate we are 75% of the way done.

What is the status of front-end application? In terms of percentage how much do you think, you have completed on front-end side of the project? Describe what is completed and what is left. 2-3 sentences.

The status of the front end application is nearly completed. We are around 70% of the way through. We just have left to add an insert page for the front end.

#### Report and demo video

- Have you started working on your report? If yes, how much is completed (percentage)
  - We have an outline of the various steps needed to create the report. We are around 15% complete.
- Which tool you are planning to use to create a demo video of your application?
   We will try to use imovie. However this is very much subject to change.

#### **Final Submission**

• The final submission of Project will be due on 4/26/2020 at 12 noon.

### **Submission:**

Complete this document and save it as pdf. You must submit a PDF file named **p2-part3-lastname1-lastname2.pdf** (For example if I submit this document with John Smith, I would name it <u>p2-part3-singh-smith.pdf</u>). Submit your files on Brightspace.

You must include your name and your partner name in the Brightspace submission text box.

Each member of the team must make the submission of same file.

### **Grading:**

This Assignment will be graded on the following criteria:

- 1. Completeness of document.
- 2. Completeness of required components at this stage of project.
- 3. Clear evidence of work completed.

NO grading will be done on file/s sent through email or not uploaded to Brightspace.