Tianjiao Xu, Tiffany Truong, Sumit Biswas

SETUP

```
MariaDB [sbiswas5]> CREATE TABLE chefmozcuisine(
    -> placeID BIGINT,
    -> Rcuisine VARCHAR(40)
    -> );
Query OK, 0 rows affected (0.023 sec)
```

```
Command Prompt (MariaDB 10.9 (x64)) - mariadb -u root -p

MariaDB [sbiswas5]> CREATE TABLE geoplaces2(
    -> placeID BIGINT,
    -> latitude FLOAT,
    -> longitude FLOAT,
    -> the_geom_meter VARCHAR(100),
    -> name VARCHAR(40),
    -> address VARCHAR(60),
    -> city VARCHAR(40),
    -> state VARCHAR(40),
    -> country VARCHAR(40),
    -> fax VARCHAR(20),
    -> zip VARCHAR(10),
    -> alcohol VARCHAR(40),
    -> smoking_area VARCHAR(40),
    -> dress_code VARCHAR(40),
    -> accessibility VARCHAR(20),
    -> price VARCHAR(20),
    -> url VARCHAR(150),
    -> Rambience VARCHAR(20),
    -> franchise BOOL,
    -> area VARCHAR(20),
    -> other_services VARCHAR(60)
    -> );
Query OK, 0 rows affected (0.022 sec)
```

```
MariaDB [sbiswas5]> show tables;
+--------------------+
| Tables_in_sbiswas5 |
+--------------------+
| chefmozcuisine     |
| geoplaces2         |
+--------------------+
2 rows in set (0.001 sec)
```

```
C:\tunnel\hw3>mysqlimport --fields-terminated-by="," --lines-terminated-by="\n" --ignore-line
s=1 --verbose --local sbiswas5 ./chefmozcuisine.csv --user=root -p
Enter password: ********
Connecting to localhost
Selecting database sbiswas5
Loading data from LOCAL file: C:/tunnel/hw3/./chefmozcuisine.csv into chefmozcuisine
sbiswas5.chefmozcuisine: Records: 916  Deleted: 0  Skipped: 0  Warnings: 0
Disconnecting from localhost
```

```
C:\tunnel\hw3>mysqlimport --fields-terminated-by="," --lines-terminated-by="\n" --ignore-line
s=1 --verbose --local sbiswas5 ./geoplaces2.csv --user=root -p
Enter password: ********
Connecting to localhost
Selecting database sbiswas5
Loading data from LOCAL file: C:/tunnel/hw3/./geoplaces2.csv into geoplaces2
sbiswas5.geoplaces2: Records: 130  Deleted: 0  Skipped: 0  Warnings: 131
Disconnecting from localhost
```

```
MariaDB [sbiswas5]> SELECT * FROM chefmozcuisine LIMIT 5 \g
+---------+----------------+
| placeID | Rcuisine       |
+---------+----------------+
|  135110 | Spanish        |
|  135109 | Italian        |
|  135107 | Latin_American |
|  135106 | Mexican        |
|  135105 | Fast_Food      |
+---------+----------------+
5 rows in set (0.001 sec)
```

```
MariaDB [sbiswas5]> SELECT * FROM geoplaces2 LIMIT 2 \G
*************************** 1. row ***************************
       placeID: 134999
      latitude: 18.9154
     longitude: -99.1849
the_geom_meter: 0101000020957F000088568DE356715AC138C0A525FC464A41
          name: Kiku Cuernavaca
       address: Revolucion
          city: Cuernavaca
         state: Morelos
       country: Mexico
           fax: ?
           zip: ?
       alcohol: No_Alcohol_Served
  smoking_area: none
    dress_code: informal
 accessibility: no_accessibility
         price: medium
           url: kikucuernavaca.com.mx
     Rambience: familiar
     franchise: 0
          area: closed
other_services: none
*************************** 2. row ***************************
       placeID: 132825
      latitude: 22.1474
     longitude: -100.983
the_geom_meter: 0101000020957F00001AD016568C4858C1243261274BA54B41
          name: puesto de tacos
       address: esquina santos degollado y leon guzman
          city: s.l.p.
         state: s.l.p.
       country: mexico
           fax: ?
           zip: 78280
       alcohol: No_Alcohol_Served
  smoking_area: none
    dress_code: informal
 accessibility: completely
         price: low
           url: ?
     Rambience: familiar
     franchise: 0
          area: open
other_services: none
2 rows in set (0.000 sec)
```

1) Name and address for all restaurants in the city of San Luis Potosi

```
MariaDB [sbiswas5]> SELECT name, address FROM geoplaces2 WHERE LOWER(city)='san luis potosi';
+-------------------------------------------------+-----------------------------------------------------+
| name                                            | address                                             |
+-------------------------------------------------+-----------------------------------------------------+
| El Rincón de San Francisco                      | Universidad 169                                     |
| Restaurant los Compadres                        | Camino a Simon Diaz 155 Centro                      |
| la Estrella de Dimas                            | Villa de Pozos 192 Villa de Pozos                   |
| Restaurante 75                                  | Villa de Pozos 4497 Villa de Pozos                  |
| Abondance Restaurante Bar                       | Industrias 908 Valle Dorado                         |
| El angel Restaurante                            | Venustiano Carranza 1625 Jardin                     |
| Restaurante Pueblo Bonito                       | Mexico 2015 Providencia                             |
| Mcdonalds Parque Tangamanga                     | Lateral Salvador Nava Martinez 3145                 |
| Tortas y hamburguesas el gordo                  | Ricardo B. Anaya                                    |
| Sirlone                                         | carr. mexico                                        |
| rockabilly                                      | agustin de iturbide                                 |
| Unicols Pizza                                   | Plaza del Carmen                                    |
| Restaurant El Muladar de Calzada                | De Guadalupe 460 San Miguelito                      |
| La Posada del Virrey                            | Av. V. Carranza                                     |
| KFC                                             | ?                                                   |
| Restaurant Oriental Express                     | Tangamanga 7 Tangamanga                             |
| Restaurante la Gran Via                         | Venustiano Carranza 560 Centro                      |
| Restaurante y Pescaderia Tampico                | Ricardo B. Anaya 2700 Estrella de Oriente           |
| La Fontana Pizza Restaurante and Cafe           | Satelite 606 Satelite                               |
| El Rincon de San Francisco                      | 1a. de Lozada 1                                     |
| Preambulo Wifi Zone Cafe                        | Anahuac 805                                         |
| El Herradero Restaurante and Bar                | Costado Sur Central Camionera Km 2                  |
| Koye Sushi                                      | Nereo Rodriguez Barragan 450 E Centro               |
| la parroquia                                    | venustiano carranza                                 |
| Luna Cafe                                       | Francisco I. Madero 215                             |
| Restaurante El Reyecito                         | Agricultura 595 del Valle                           |
| Dominos Pizza                                   | Ricardo B. Anaya                                    |
| Restaurant Bar Hacienda los Martinez            | Santos Degollado 745 los Alamitos                   |
| Restaurante Alhondiga                           | Alhondiga 62 Centro                                 |
| los Toneles                                     | Estatuto Juridico 1040 Burocratas                   |
| Restaurante Guerra                              | 20 de Noviembre 1817 Tlaxcala                       |
| Michiko Restaurant Japones                      | Cordillera de Los Alpes 160 Lomas 2 Seccion         |
| Restaurante Marisco Sam                         | Ignacio Allende 785 Centro                          |
| la Cochinita Pibil Restaurante Yucateco         | Venustiano Carranza 2175 Jardin                     |
| Potzocalli                                      | Carretera Central Sn                                |
| Restaurante la Parroquia Potosina               | Venustiano Carranza 303 Centro                      |
| Restaurante El Chivero S.A. de C.V.             | Angel Veral 328 Altamira                            |
| Restaurant la Chalita                           | Guajardo Sn San Luis Potosi Centro                  |
```
```
| El Club                                         | Mexico 810 Centro                                   |
| Restaurante Versalles                           | Francisco I. Madero 145 Centro                      |
| La Cantina Restaurante                          | Ignacio Aldama 300 Centro                           |
| Cenaduria El Rincâˆšâ¥n de Tlaquepaque          | av. seminario                                       |
| Hamburguesas Valle Dorado                       | Av. Coral                                           |
| la Cantina                                      | Capitan Caldera No. 420 Tequisqueapan               |
| Restaurante Casa de las Flores                  | General Mariano Arista 1205 Barrio de Tequisquiap   |
| VIPS                                            | NICOLAS ZAPATA 300                                  |
| Restaurant Wu Zhuo Yi                           | Himno Nacional 100 Avenida                          |
| El Mundo de la Pasta                            | Rio Papaloapan 265 Lomas de San Luis (3)            |
| Restaurante la Cantina                          | De La Estrella 2005 Estrella de Oriente             |
| Gorditas Doa Gloria                             | sevilla y olmedo 715 a                              |
| el lechon potosino                              | circuito oriente esq. carretera 57                  |
| Restaurante Bar Fu-hao                          | Jesus Goytortua 390 Tangamanga                      |
| Carls Jr                                        | Av. V. Carranza                                     |
| Hamburguesas saul                               | Av. Saan Luis enttre moctezuma y salinas            |
| Cafe Chaires                                    | ?                                                   |
| tacos los volcanes                              | avenida hivno nacional                              |
| Restaurant Orizatlan                            | Pascual M. Hernandez 240                            |
| Restaurant de Mariscos de Picon                 | Miguel Barragan 46 Centro                           |
| La Estrella de Dimas                            | Av. de los Pintores                                 |
| Restaurante de Mariscos la Langosta             | Cordillera de Los Alpes 675 Loma Verde              |
| Restaurante Bar El Gallinero                    | Pascual M. Hernandez 210 Centro                     |
| Mariscos El Pescador                            | Himno Nacional 2104 Tangamanga                      |
| Restaurante El Cielo Potosino                   | Julian de Los Reyes 400 Centro                      |
| Restaurante Tiberius                            | Munoz Sn Centro                                     |
| Cabana Huasteca                                 | Cuauhtemoc 455                                      |
| Cafeteria y Restaurant El Pacifico              | Constitucion 200 Centro                             |
| La Virreina                                     | Av. Carranza 830                                    |
| Tortas Locas Hipocampo                          | Venustiano Carranza 719 Centro                      |
| Chaires                                         | Ricardo B. Anaya                                    |
| Sushi Itto                                      | Venustiano Carranza 1809 C Polanco                  |
+-------------------------------------------------+-----------------------------------------------------+
70 rows in set (0.001 sec)
```

2) Number of restaurants that do not serve alcohol for each type of cuisine

```
MariaDB [sbiswas5]> SELECT Rcuisine, COUNT(*)
    -> FROM geoplaces2
    -> INNER JOIN chefmozcuisine
    -> ON geoplaces2.placeID = chefmozcuisine.placeID
    -> WHERE geoplaces2.alcohol = 'No_Alcohol_Served'
    -> GROUP BY chefmozcuisine.Rcuisine;
+------------------+----------+
| Rcuisine         | COUNT(*) |
+------------------+----------+
| American         |        5 |
| Armenian         |        1 |
| Bakery           |        1 |
| Bar              |        1 |
| Breakfast-Brunch |        1 |
| Burgers          |        5 |
| Cafe-Coffee_Shop |        1 |
| Cafeteria        |        7 |
| Chinese          |        3 |
| Family           |        1 |
| Fast_Food        |        8 |
| Game             |        1 |
| International    |        1 |
| Italian          |        2 |
| Japanese         |        3 |
| Mediterranean    |        1 |
| Mexican          |       20 |
| Pizzeria         |        5 |
| Regional         |        1 |
| Seafood          |        5 |
+------------------+----------+
20 rows in set (0.007 sec)
```

3) a)

```
MariaDB [sbiswas5]> UPDATE geoplaces2 SET zip = NULL WHERE zip = '?';
Query OK, 74 rows affected (0.005 sec)
Rows matched: 74  Changed: 74  Warnings: 0
```

```
MariaDB [sbiswas5]> SELECT placeID, zip FROM geoplaces2 WHERE zip IS NULL;
+---------+------+
| placeID | zip  |
+---------+------+
|  134999 | NULL |
|  132667 | NULL |
|  132613 | NULL |
|  132875 | NULL |
|  132609 | NULL |
|  132870 | NULL |
|  132854 | NULL |
|  132937 | NULL |
|  132856 | NULL |
|  132668 | NULL |
|  132862 | NULL |
|  132851 | NULL |
|  135013 | NULL |
|  132561 | NULL |
|  132847 | NULL |
|  134975 | NULL |
|  135025 | NULL |
|  135030 | NULL |
|  134992 | NULL |
|  132954 | NULL |
|  135041 | NULL |
|  132608 | NULL |
|  132564 | NULL |
|  132869 | NULL |
|  132925 | NULL |
|  132955 | NULL |
|  135108 | NULL |
|  135018 | NULL |
|  132723 | NULL |
|  132845 | NULL |
|  135011 | NULL |
|  132858 | NULL |
|  132884 | NULL |
|  135016 | NULL |
|  135104 | NULL |
|  132630 | NULL |
|  132951 | NULL |
|  132665 | NULL |
|  132846 | NULL |
|  132717 | NULL |
```

```
| 132861 | NULL |
| 132740 | NULL |
| 132830 | NULL |
| 132773 | NULL |
| 132706 | NULL |
| 132872 | NULL |
| 132572 | NULL |
| 132958 | NULL |
| 132733 | NULL |
| 132922 | NULL |
| 132715 | NULL |
| 135027 | NULL |
| 132767 | NULL |
| 134996 | NULL |
| 132755 | NULL |
| 135043 | NULL |
| 132654 | NULL |
| 132560 | NULL |
| 134976 | NULL |
| 132660 | NULL |
| 132921 | NULL |
| 132594 | NULL |
| 134986 | NULL |
| 132766 | NULL |
| 135088 | NULL |
| 132754 | NULL |
| 132584 | NULL |
| 135028 | NULL |
| 132663 | NULL |
| 132626 | NULL |
| 132866 | NULL |
| 135109 | NULL |
| 135019 | NULL |
| 132877 | NULL |
+---------+------+
74 rows in set (0.001 sec)
```

b) The first command goes through the *geoplaces2* table, and in rows where the '*zip*' column equals '*?*', it sets the zip column to NULL.

The second command displays the '*placeID*' and the '*zip*' columns from the rows in the *geoplaces2* table where the '*zip*' column is set to NULL (from the update performed by the previous command). These commands have also replaced all the mystery values of the zipcodes to at least NULL.