```
 1   -- Lynch, Connor
 2   -- ISTE230, Fall 2024
 3
 4
 5   mysql> SOURCE C:\ISTE230\HW\HW03\Lynch_HW3p1.sql
 6   --------------
 7   -- Lynch, Connor
 8   --------------
 9
10   Query OK, 0 rows affected (0.00 sec)
11
12   --------------
13   -- ISTE230, Fall 2024
14   --------------
15
16   Query OK, 0 rows affected (0.00 sec)
17
18   --------------
19   -- Q1
20   --------------
21
22   Query OK, 0 rows affected (0.00 sec)
23
24   --------------
25   SELECT now()
26   --------------
27
28   +---------------------+
29   | now()               |
30   +---------------------+
31   | 2024-09-18 13:05:07 |
32   +---------------------+
33   1 row in set (0.00 sec)
34
35   --------------
36   -- Q2
37   --------------
38
39   Query OK, 0 rows affected (0.00 sec)
40
41   --------------
42   SELECT headOfState
43         FROM country
44         WHERE code = 'USA'
```

```
45  -------------
46
47  +-----------------+
48  | headOfState     |
49  +-----------------+
50  | Donald J. Trump |
51  +-----------------+
52  1 row in set (0.00 sec)
53
54  -------------
55
56  -- Q3
57  UPDATE country
58          SET headOfState = 'Joseph R. Biden Jr.'
59          WHERE code = 'USA'
60  -------------
61
62  Query OK, 1 row affected (0.00 sec)
63  Rows matched: 1  Changed: 1  Warnings: 0
64
65  -------------
66  SELECT headOfState
67          FROM country
68          WHERE code = 'USA'
69  -------------
70
71  +---------------------+
72  | headOfState         |
73  +---------------------+
74  | Joseph R. Biden Jr. |
75  +---------------------+
76  1 row in set (0.00 sec)
77
78  -------------
79
80  -- Q4
81  SELECT name
82          FROM country
83          WHERE indepYear IS NULL
84  -------------
85
86  +---------------------------------------------+
87  | name                                        |
88  +---------------------------------------------+
```

```
 89  | Aruba                                         |
 90  | Anguilla                                      |
 91  | Netherlands Antilles                          |
 92  | American Samoa                                |
 93  | Antarctica                                    |
 94  | French Southern territories                   |
 95  | Bermuda                                        |
 96  | Bouvet Island                                  |
 97  | Cocos (Keeling) Islands                        |
 98  | Cook Islands                                   |
 99  | Christmas Island                               |
100  | Cayman Islands                                 |
101  | Western Sahara                                 |
102  | Falkland Islands                               |
103  | Faroe Islands                                  |
104  | Gibraltar                                      |
105  | Guadeloupe                                     |
106  | Greenland                                      |
107  | French Guiana                                  |
108  | Guam                                           |
109  | Hong Kong                                      |
110  | Heard Island and McDonald Islands              |
111  | British Indian Ocean Territory                 |
112  | Macao                                          |
113  | Northern Mariana Islands                       |
114  | Montserrat                                     |
115  | Martinique                                     |
116  | Mayotte                                        |
117  | New Caledonia                                  |
118  | Norfolk Island                                 |
119  | Niue                                           |
120  | Pitcairn                                       |
121  | Puerto Rico                                    |
122  | Palestine                                      |
123  | French Polynesia                               |
124  | Rèunion                                        |
125  | South Georgia and the South Sandwich Islands  |
126  | Saint Helena                                   |
127  | Svalbard and Jan Mayen                         |
128  | Saint Pierre and Miquelon                      |
129  | Turks and Caicos Islands                       |
130  | Tokelau                                        |
131  | East Timor                                     |
132  | United States Minor Outlying Islands           |
```

```
133  | Virgin Islands, British                        |
134  | Virgin Islands, U.S.                           |
135  | Wallis and Futuna                              |
136  +------------------------------------------------+
137  47 rows in set (0.00 sec)
138
139  --------------
140
141  -- Q5
142  SELECT name, continent
143          FROM country
144          WHERE population > 1000000000
145          AND lifeExpectancy >= 70
146          AND lifeExpectancy <= 80
147  --------------
148
149  +-------+-----------+
150  | name  | continent |
151  +-------+-----------+
152  | China | Asia      |
153  +-------+-----------+
154  1 row in set (0.00 sec)
155
156  --------------
157
158  -- Q6
159  SELECT name
160          FROM country
161          WHERE continent = 'North America'
162          OR continent = 'South America'
163  --------------
164
165  +---------------------------------+
166  | name                            |
167  +---------------------------------+
168  | Aruba                           |
169  | Anguilla                        |
170  | Netherlands Antilles            |
171  | Argentina                       |
172  | Antigua and Barbuda             |
173  | Bahamas                         |
174  | Belize                          |
175  | Bermuda                         |
176  | Bolivia                         |
```

4

```
177   | Brazil                         |
178   | Barbados                       |
179   | Canada                         |
180   | Chile                          |
181   | Colombia                       |
182   | Costa Rica                     |
183   | Cuba                           |
184   | Cayman Islands                 |
185   | Dominica                       |
186   | Dominican Republic             |
187   | Ecuador                        |
188   | Falkland Islands               |
189   | Guadeloupe                     |
190   | Grenada                        |
191   | Greenland                      |
192   | Guatemala                      |
193   | French Guiana                  |
194   | Guyana                         |
195   | Honduras                       |
196   | Haiti                          |
197   | Jamaica                        |
198   | Saint Kitts and Nevis          |
199   | Saint Lucia                    |
200   | Mexico                         |
201   | Montserrat                     |
202   | Martinique                     |
203   | Nicaragua                      |
204   | Panama                         |
205   | Peru                           |
206   | Puerto Rico                    |
207   | Paraguay                       |
208   | El Salvador                    |
209   | Saint Pierre and Miquelon      |
210   | Suriname                       |
211   | Turks and Caicos Islands       |
212   | Trinidad and Tobago            |
213   | Uruguay                        |
214   | United States                  |
215   | Saint Vincent and the Grenadines |
216   | Venezuela                      |
217   | Virgin Islands, British        |
218   | Virgin Islands, U.S.           |
219   +--------------------------------+
220   51 rows in set (0.00 sec)
```

```
221
222   --------------
223
224   -- Q7
225   SELECT name, lifeExpectancy
226          FROM country
227          WHERE lifeExpectancy < 46
228          ORDER BY lifeExpectancy DESC
229   --------------
230
231   +--------------------------+----------------+
232   | name                     | lifeExpectancy |
233   +--------------------------+----------------+
234   | Afghanistan              |           45.9 |
235   | Guinea                   |           45.6 |
236   | Sierra Leone             |           45.3 |
237   | CÙte díIvoire            |           45.2 |
238   | Ethiopia                 |           45.2 |
239   | Central African Republic |           44.0 |
240   | Uganda                   |           42.9 |
241   | Namibia                  |           42.5 |
242   | Niger                    |           41.3 |
243   | Swaziland                |           40.4 |
244   | Botswana                 |           39.3 |
245   | Rwanda                   |           39.3 |
246   | Angola                   |           38.3 |
247   | Zimbabwe                 |           37.8 |
248   | Malawi                   |           37.6 |
249   | Mozambique               |           37.5 |
250   | Zambia                   |           37.2 |
251   +--------------------------+----------------+
252   17 rows in set (0.00 sec)
253
254   mysql> SOURCE C:\ISTE230\HW\HW03\Lynch_HW3p2.sql
255   --------------
256   -- Lynch, Connor
257   --------------
258
259   Query OK, 0 rows affected (0.00 sec)
260
261   --------------
262   -- ISTE230, Fall 2024
263   --------------
264
```

```
265  Query OK, 0 rows affected (0.00 sec)
266
267  --------------
268  # Date updated:  07/10/2020
269  --------------
270
271  Query OK, 0 rows affected (0.00 sec)
272
273  --------------
274  -- Drops the conman database if it exists
275  --------------
276
277  Query OK, 0 rows affected (0.00 sec)
278
279  --------------
280  DROP DATABASE IF EXISTS conman
281  --------------
282
283  Query OK, 1 row affected (0.02 sec)
284
285  --------------
286  CREATE DATABASE conman
287  --------------
288
289  Query OK, 1 row affected (0.01 sec)
290
291  Database changed
292  --------------
293  -- Creates the contactInfo table
294  --------------
295
296  Query OK, 0 rows affected (0.00 sec)
297
298  --------------
299  /* Since the database is dropped if it exists,
300      there is no reason to drop the table */
301  CREATE TABLE contactInfo(
302  contactID int                    Comment "This will be the Primary Key",
303  firstName varchar(15),
304  middleInitial char(1),
305  lastName varchar(25),
306  email varchar(40),
307  url varchar(55),
308  birthday date,
```

```
309  notes varchar(255),
310  CONSTRAINT contact_info_pk PRIMARY KEY(contactID)
311  ) ENGINE=InnoDB DEFAULT CHARSET=utf8
312  --------------
313
314  Query OK, 0 rows affected, 1 warning (0.02 sec)
315
316  --------------
317  -- Updated 07/10/2020
318  --------------
319
320  Query OK, 0 rows affected (0.00 sec)
321
322  --------------
323  -- Inserts record into contactInfo
324  --------------
325
326  Query OK, 0 rows affected (0.00 sec)
327
328  --------------
329  -- Please notice not every attribute/field listed has a value
330  --------------
331
332  Query OK, 0 rows affected (0.00 sec)
333
334  --------------
335  -- Qty of attribute names is 8
336  --------------
337
338  Query OK, 0 rows affected (0.00 sec)
339
340  --------------
341  -- Qty of values is 7
342  --------------
343
344  Query OK, 0 rows affected (0.00 sec)
345
346  --------------
347  INSERT INTO contactInfo
348  (contactID,
349  firstName,
350  middleInitial,
351  lastName,
352  email,
```

```
353  url,
354  birthday,
355  notes)
356  VALUES
357  (1,
358  'David',
359  'C',
360  'Munson',
361  'munson@rit.edu',
362  'http://www.rit.edu/president',
363  NULL,
364  'Started as President of RIT on July 1, 2017.')
365  --------------
366
367  Query OK, 1 row affected (0.00 sec)
368
369  --------------
370  -- T1
371  --------------
372
373  Query OK, 0 rows affected (0.00 sec)
374
375  --------------
376  INSERT INTO contactInfo (contactID, firstName, middleInitial, lastName, email, birthday, notes)
377         VALUES (2, 'Connor', 'P', 'Lynch', 'clynch113@gmail.com', '2004-01-13', 'Student')
378  --------------
379
380  Query OK, 1 row affected (0.00 sec)
381
382  --------------
383  INSERT INTO contactInfo
384         VALUES (3, 'Eli', 'T', 'Wallowby', 'etwallowby@concor.com', 'www.concor.com/~wallowby', '1956-03-26', 'All meetings must
               be scheduled through his assistant.')
385  --------------
386
387  Query OK, 1 row affected (0.00 sec)
388
389  --------------
390  INSERT INTO contactInfo (contactID, firstName, middleInitial, lastName, email, birthday, notes)
391         VALUES (4, 'Eve', 'C', 'Sampson', 'esampson@concor.com', '1972-05-11', 'Very helpful.')
392  --------------
393
394  Query OK, 1 row affected (0.00 sec)
395
```

```
396  --------------
397  INSERT INTO contactInfo (contactID, firstName, middleInitial, lastName, email, birthday, notes)
398        VALUES (5, 'Carson', 'B', 'Campbell', 'cbc232@mvch.org', '1955-01-05', 'Wife: Lisa Kids: Lucas, Lucy, and Lucinda.')
399  --------------
400
401  Query OK, 1 row affected (0.00 sec)
402
403  --------------
404  SELECT * FROM contactInfo
405  --------------
406
407  +-----------+-----------+---------------+----------+----------------------+------------------------------+------------+---------
     -----------------------------------------------+
408  | contactID | firstName | middleInitial | lastName | email                | url                          | birthday   | notes
     |
409  +-----------+-----------+---------------+----------+----------------------+------------------------------+------------+---------
     -----------------------------------------------+
410  |         1 | David     | C             | Munson   | munson@rit.edu       | http://www.rit.edu/president | NULL       | Started
     as President of RIT on July 1, 2017.          |
411  |         2 | Connor    | P             | Lynch    | clynch113@gmail.com  | NULL                         | 2004-01-13 | Student
     |
412  |         3 | Eli       | T             | Wallowby | etwallowby@concor.com | www.concor.com/~wallowby     | 1956-03-26 | All
     meetings must be scheduled through his assistant. |
413  |         4 | Eve       | C             | Sampson  | esampson@concor.com  | NULL                         | 1972-05-11 | Very
     helpful.                                       |
414  |         5 | Carson    | B             | Campbell | cbc232@mvch.org      | NULL                         | 1955-01-05 | Wife:
     Lisa Kids: Lucas, Lucy, and Lucinda.          |
415  +-----------+-----------+---------------+----------+----------------------+------------------------------+------------+---------
     -----------------------------------------------+
416  5 rows in set (0.00 sec)
417
418  --------------
419  -- T2
420  --------------
421
422  Query OK, 0 rows affected (0.00 sec)
423
424  --------------
425  ALTER TABLE contactInfo ADD COLUMN nickname varchar(20) DEFAULT 'To Be Determined'
426  --------------
427
428  Query OK, 0 rows affected (0.01 sec)
429  Records: 0  Duplicates: 0  Warnings: 0
430
```

```
431  --------------
432  SELECT * FROM contactInfo
433  --------------
434
435  +-----------+-----------+---------------+----------+----------------------+-----------------------------+------------+---------
     --------------------------------------------------+-----------------+
436  | contactID | firstName | middleInitial | lastName | email                | url                         | birthday   | notes
     | nickname        |
437  +-----------+-----------+---------------+----------+----------------------+-----------------------------+------------+---------
     --------------------------------------------------+-----------------+
438  |         1 | David     | C             | Munson   | munson@rit.edu       | http://www.rit.edu/president | NULL       | Started
     as President of RIT on July 1, 2017.         | To Be Determined |
439  |         2 | Connor    | P             | Lynch    | clynch113@gmail.com  | NULL                        | 2004-01-13 | Student
     | To Be Determined |
440  |         3 | Eli       | T             | Wallowby | etwallowby@concor.com | www.concor.com/~wallowby    | 1956-03-26 | All
     meetings must be scheduled through his assistant. | To Be Determined |
441  |         4 | Eve       | C             | Sampson  | esampson@concor.com  | NULL                        | 1972-05-11 | Very
     helpful.                                     | To Be Determined |
442  |         5 | Carson    | B             | Campbell | cbc232@mvch.org      | NULL                        | 1955-01-05 | Wife:
     Lisa Kids: Lucas, Lucy, and Lucinda.         | To Be Determined |
443  +-----------+-----------+---------------+----------+----------------------+-----------------------------+------------+---------
     --------------------------------------------------+-----------------+
444  5 rows in set (0.00 sec)
445
446  --------------
447  -- T3
448  --------------
449
450  Query OK, 0 rows affected (0.00 sec)
451
452  --------------
453  ALTER TABLE contactInfo DROP PRIMARY KEY
454  --------------
455
456  Query OK, 5 rows affected (0.05 sec)
457  Records: 5  Duplicates: 0  Warnings: 0
458
459  --------------
460  ALTER TABLE contactInfo ADD PRIMARY KEY (contactID, firstName, lastName)
461  --------------
462
463  Query OK, 0 rows affected (0.08 sec)
464  Records: 0  Duplicates: 0  Warnings: 0
465
```

```
466  --------------
467  DESC contactInfo
468  --------------
469
470  +---------------+--------------+------+-----+------------------+-------+
471  | Field         | Type         | Null | Key | Default          | Extra |
472  +---------------+--------------+------+-----+------------------+-------+
473  | contactID     | int          | NO   | PRI | NULL             |       |
474  | firstName     | varchar(15)  | NO   | PRI | NULL             |       |
475  | middleInitial | char(1)      | YES  |     | NULL             |       |
476  | lastName      | varchar(25)  | NO   | PRI | NULL             |       |
477  | email         | varchar(40)  | YES  |     | NULL             |       |
478  | url           | varchar(55)  | YES  |     | NULL             |       |
479  | birthday      | date         | YES  |     | NULL             |       |
480  | notes         | varchar(255) | YES  |     | NULL             |       |
481  | nickname      | varchar(20)  | YES  |     | To Be Determined |       |
482  +---------------+--------------+------+-----+------------------+-------+
483  9 rows in set (0.00 sec)
484
485  --------------
486  -- T4
487  --------------
488
489  Query OK, 0 rows affected (0.00 sec)
490
491  --------------
492  UPDATE contactInfo SET nickname = 'Dave'
493         WHERE contactID = 1
494  --------------
495
496  Query OK, 1 row affected (0.00 sec)
497  Rows matched: 1  Changed: 1  Warnings: 0
498
499  --------------
500  SELECT * FROM contactInfo
501  --------------
502
503  +-----------+-----------+---------------+----------+---------------------+-----------------------------+-----------+---------
     ------------------------------------------------+-----------------+
504  | contactID | firstName | middleInitial | lastName | email               | url                         | birthday  | notes
     | nickname     |
505  +-----------+-----------+---------------+----------+---------------------+-----------------------------+-----------+---------
     ------------------------------------------------+-----------------+
506  |         1 | David     | C             | Munson   | munson@rit.edu      | http://www.rit.edu/president | NULL     | Started
```

```
506  as President of RIT on July 1, 2017.          | Dave               |
507  |          2 | Connor     | P             | Lynch    | clynch113@gmail.com   | NULL                      | 2004-01-13 | Student
     | To Be Determined |
508  |          3 | Eli        | T             | Wallowby | etwallowby@concor.com | www.concor.com/~wallowby  | 1956-03-26 | All
     meetings must be scheduled through his assistant. | To Be Determined |
509  |          4 | Eve        | C             | Sampson  | esampson@concor.com   | NULL                      | 1972-05-11 | Very
     helpful.                                           | To Be Determined |
510  |          5 | Carson     | B             | Campbell | cbc232@mvch.org       | NULL                      | 1955-01-05 | Wife:
     Lisa Kids: Lucas, Lucy, and Lucinda.          | To Be Determined |
511  +-----------+-----------+---------------+----------+---------------------+---------------------------+------------+---------
     ----------------------------------------------+------------------+
512  5 rows in set (0.00 sec)
513
514  --------------
515
516  -- T5
517  DELETE FROM contactInfo
518       WHERE URL = 'www.concor.com/~wallowby'
519  --------------
520
521  Query OK, 1 row affected (0.00 sec)
522
523  --------------
524  SELECT * FROM contactInfo
525  --------------
526
527  +-----------+-----------+---------------+----------+---------------------+---------------------------+------------+---------
     ----------------------------------------------+------------------+
528  | contactID | firstName | middleInitial | lastName | email               | url                       | birthday   | notes
     | nickname         |
529  +-----------+-----------+---------------+----------+---------------------+---------------------------+------------+---------
     ----------------------------------------------+------------------+
530  |          1 | David      | C             | Munson   | munson@rit.edu      | http://www.rit.edu/president | NULL       | Started as
     President of RIT on July 1, 2017. | Dave          |
531  |          2 | Connor     | P             | Lynch    | clynch113@gmail.com | NULL                      | 2004-01-13 | Student
     | To Be Determined |
532  |          4 | Eve        | C             | Sampson  | esampson@concor.com | NULL                      | 1972-05-11 | Very
     helpful.                              | To Be Determined |
533  |          5 | Carson     | B             | Campbell | cbc232@mvch.org     | NULL                      | 1955-01-05 | Wife: Lisa
     Kids: Lucas, Lucy, and Lucinda.   | To Be Determined |
534  +-----------+-----------+---------------+----------+---------------------+---------------------------+------------+---------
     ----------------------------------------------+------------------+
535  4 rows in set (0.00 sec)
536
```

537 mysql> NOTEE
538