```
 1   mysql> SOURCE C:\ISTE230\HW\HW05\Lynch_HW05_script.sql
 2   --------------
 3   -- Lynch, Connor
 4   --------------
 5
 6   Query OK, 0 rows affected (0.00 sec)
 7
 8   --------------
 9   -- ISTE230, Fall 2024
10   --------------
11
12   Query OK, 0 rows affected (0.00 sec)
13
14   --------------
15   -- HW05
16   --------------
17
18   Query OK, 0 rows affected (0.00 sec)
19
20   --------------
21   -- #1
22   --------------
23
24   Query OK, 0 rows affected (0.00 sec)
25
26   --------------
27   SELECT NOW()
28   --------------
29
30   +---------------------+
31   | NOW()               |
32   +---------------------+
33   | 2024-10-21 12:56:10 |
34   +---------------------+
35   1 row in set (0.00 sec)
36
37   --------------
38   -- #2
39   --------------
40
41   Query OK, 0 rows affected (0.00 sec)
42
43   --------------
44   SELECT companyname, division, listing FROM interview
```

```
45  WHERE listing = 'n'
46  UNION
47  SELECT companyname, division, listing FROM interview
48  WHERE listing = 'y'
49  -------------
50
51  +--------------------------+----------------+---------+
52  | companyname              | division       | listing |
53  +--------------------------+----------------+---------+
54  | Braddock Information Assoc. | Payroll        | n       |
55  | Vegas Programming and Design | Development  | n       |
56  | Cameron Industries       | Management     | n       |
57  | Cameron Industries       | Customer Support | n     |
58  | CCC Software             | Production     | n       |
59  | DC Security Applications | RandD          | n       |
60  | Davis-Klein Software     | RandD          | n       |
61  | Flordia Software Designs | RandD          | n       |
62  | Rochester Software Design | Development   | n       |
63  | Jersey Computer Services | Customer Support | n     |
64  | Flordia Software Designs | Development    | n       |
65  | Sandy Shore Software     | Development    | n       |
66  | Virginia Software Industries | Production | n       |
67  | Acme Information Source  | Customer Support | y     |
68  | Ajax Software, Inc.      | Production     | y       |
69  | Ajax Software, Inc.      | RandD          | y       |
70  | Bay Software Inc.        | Production     | y       |
71  | Mountainside Magic Software | Management  | y       |
72  | Mountainside Magic Software | Customer Support | y  |
73  | Focused Applications, Inc. | Production   | y       |
74  | Georgia Software Design  | RandD          | y       |
75  | ApplDesign               | RandD          | y       |
76  | Long Island Apps, Inc.   | Development    | y       |
77  | Manhattan-Made Software  | Customer Support | y     |
78  | Manhattan-Made Software  | Payroll        | y       |
79  | Nantucket Applications, Inc. | RandD      | y       |
80  | PennState Programming, Inc. | Management  | y       |
81  | Buffalo Software Assoc.  | Payroll        | y       |
82  +--------------------------+----------------+---------+
83  28 rows in set (0.00 sec)
84
85  -------------
86  -- #3
87  -------------
88
```

```
 89  Query OK, 0 rows affected (0.00 sec)
 90
 91  --------------
 92  SELECT employer.companyname, employer.division, statecode
 93  FROM employer INNER JOIN interview
 94  USING (companyname, division)
 95  --------------
 96
 97  +--------------------------------+-----------------+-----------+
 98  | companyname                    | division        | statecode |
 99  +--------------------------------+-----------------+-----------+
100  | Acme Information Source        | Customer Support | OH       |
101  | Ajax Software, Inc.            | Production      | CA        |
102  | Ajax Software, Inc.            | RandD           | CA        |
103  | ApplDesign                     | RandD           | AL        |
104  | Bay Software Inc.              | Production      | CA        |
105  | Braddock Information Assoc.    | Payroll         | MA        |
106  | Buffalo Software Assoc.        | Payroll         | NY        |
107  | Cameron Industries             | Customer Support | TX       |
108  | Cameron Industries             | Management      | TX        |
109  | CCC Software                   | Production      | NY        |
110  | Davis-Klein Software           | RandD           | NY        |
111  | DC Security Applications       | RandD           | VA        |
112  | Flordia Software Designs       | Development     | FL        |
113  | Flordia Software Designs       | RandD           | FL        |
114  | Focused Applications, Inc.     | Production      | SC        |
115  | Georgia Software Design        | RandD           | GA        |
116  | Jersey Computer Services       | Customer Support | NJ       |
117  | Long Island Apps, Inc.         | Development     | NY        |
118  | Manhattan-Made Software        | Customer Support | NY       |
119  | Manhattan-Made Software        | Payroll         | NY        |
120  | Mountainside Magic Software    | Customer Support | CO       |
121  | Mountainside Magic Software    | Management      | CO        |
122  | Nantucket Applications, Inc.   | RandD           | MA        |
123  | PennState Programming, Inc.    | Management      | PA        |
124  | Rochester Software Design      | Development     | NY        |
125  | Sandy Shore Software           | Development     | CT        |
126  | Vegas Programming and Design   | Development     | NV        |
127  | Virginia Software Industries   | Production      | VA        |
128  +--------------------------------+-----------------+-----------+
129  28 rows in set (0.00 sec)
130
131  --------------
132  -- #4
```

```
133  --------------
134
135  Query OK, 0 rows affected (0.00 sec)
136
137  --------------
138  SELECT * FROM state
139  WHERE NOT EXISTS
140  (
141  SELECT * FROM employer WHERE state.statecode = employer.statecode
142  )
143  --------------
144
145  +-----------+-------------------------------+
146  | stateCode | description                   |
147  +-----------+-------------------------------+
148  | AK        | ALASKA                        |
149  | AR        | ARKANSAS                      |
150  | AS        | AMERICAN SAMOA                |
151  | AZ        | ARIZONA                       |
152  | DC        | DISTRICT OF COLUMBIA          |
153  | DE        | DELAWARE                      |
154  | FM        | FEDERATED STATES OF MICRONESIA |
155  | GU        | GUAM                          |
156  | HI        | HAWAII                        |
157  | IA        | IOWA                          |
158  | ID        | IDAHO                         |
159  | IL        | ILLINOIS                      |
160  | IN        | INDIANA                       |
161  | KS        | KANSAS                        |
162  | KY        | KENTUCKY                      |
163  | LA        | LOUISIANA                     |
164  | MD        | MARYLAND                      |
165  | ME        | MAINE                         |
166  | MH        | MARSHALL ISLANDS              |
167  | MN        | MINNESOTA                     |
168  | MO        | MISSOURI                      |
169  | MP        | NORTHERN MARIANA ISLANDS      |
170  | MS        | MISSISSIPPI                   |
171  | MT        | MONTANA                       |
172  | NC        | NORTH CAROLINA                |
173  | ND        | NORTH DAKOTA                  |
174  | NE        | NEBRASKA                      |
175  | NH        | NEW HAMPSHIRE                 |
176  | NM        | NEW MEXICO                    |
```

```
177  | OK         | OKLAHOMA                        |
178  | OR         | OREGON                          |
179  | PR         | PUERTO RICO                     |
180  | PW         | PALAU                           |
181  | RI         | RHODE ISLAND                    |
182  | SD         | SOUTH DAKOTA                    |
183  | TN         | TENNESSEE                       |
184  | UT         | UTAH                            |
185  | VI         | VIRGIN ISLANDS                  |
186  | VT         | VERMONT                         |
187  | WA         | WASHINGTON                      |
188  | WI         | WISCONSIN                       |
189  | WV         | WEST VIRGINIA                   |
190  | WY         | WYOMING                         |
191  +-----------+---------------------------------+
192  43 rows in set (0.00 sec)
193
194  --------------
195  -- #5
196  --------------
197
198  Query OK, 0 rows affected (0.00 sec)
199
200  --------------
201  SELECT location, qtrcode FROM quarter
202  --------------
203
204  +----------+---------+
205  | location | qtrcode |
206  +----------+---------+
207  | CA       | 20193   |
208  | MA       | 20203   |
209  | NY       | 20191   |
210  | NY       | 20201   |
211  | NY       | 20204   |
212  +----------+---------+
213  5 rows in set (0.00 sec)
214
215  --------------
216  -- #6
217  --------------
218
219  Query OK, 0 rows affected (0.00 sec)
220
```

```
221  --------------
222  SELECT * FROM quarter WHERE qtrcode IN ('20201', '20204')
223  --------------
224
225  +---------+----------+--------+--------+
226  | qtrCode | location | minSal | minHrs |
227  +---------+----------+--------+--------+
228  | 20201   | NY       | 22.25  |     30 |
229  | 20204   | NY       | 23.75  |     40 |
230  +---------+----------+--------+--------+
231  2 rows in set (0.00 sec)
232
233  --------------
234  -- #7
235  --------------
236
237  Query OK, 0 rows affected (0.00 sec)
238
239  --------------
240  SELECT companyname, employer.statecode, description
241  FROM employer INNER JOIN state
242  USING (statecode)
243  --------------
244
245  +--------------------------------+-----------+---------------+
246  | companyname                    | statecode | description   |
247  +--------------------------------+-----------+---------------+
248  | ApplDesign                     | AL        | ALABAMA       |
249  | Ajax Software, Inc.            | CA        | CALIFORNIA    |
250  | Ajax Software, Inc.            | CA        | CALIFORNIA    |
251  | Bay Software Inc.              | CA        | CALIFORNIA    |
252  | Bay Software Inc.              | CA        | CALIFORNIA    |
253  | Mountainside Magic Software    | CO        | COLORADO      |
254  | Mountainside Magic Software    | CO        | COLORADO      |
255  | Sandy Shore Software           | CT        | CONNECTICUT   |
256  | Flordia Software Designs       | FL        | FLORIDA       |
257  | Flordia Software Designs       | FL        | FLORIDA       |
258  | Georgia Software Design        | GA        | GEORGIA       |
259  | Braddock Information Assoc.    | MA        | MASSACHUSETTS |
260  | Nantucket Applications, Inc.   | MA        | MASSACHUSETTS |
261  | Michigan Application Design    | MI        | MICHIGAN      |
262  | Jersey Computer Services       | NJ        | NEW JERSEY    |
263  | Vegas Programming and Design   | NV        | NEVADA        |
264  | Buffalo Software Assoc.        | NY        | NEW YORK      |
```

```
265  | CCC Software                 | NY        | NEW YORK        |
266  | Davis-Klein Software         | NY        | NEW YORK        |
267  | Long Island Apps, Inc.       | NY        | NEW YORK        |
268  | Manhattan-Made Software      | NY        | NEW YORK        |
269  | Manhattan-Made Software      | NY        | NEW YORK        |
270  | Midtown Software Development  | NY        | NEW YORK        |
271  | Rochester Application Software | NY      | NEW YORK        |
272  | Rochester Software Design     | NY        | NEW YORK        |
273  | Western New York Applications | NY        | NEW YORK        |
274  | Yankee Software              | NY        | NEW YORK        |
275  | Yankee Software              | NY        | NEW YORK        |
276  | Yankee Software              | NY        | NEW YORK        |
277  | Acme Information Source       | OH        | OHIO            |
278  | PennState Programming, Inc.   | PA        | PENNSYLVANIA    |
279  | PSWD, Inc.                    | PA        | PENNSYLVANIA    |
280  | Focused Applications, Inc.    | SC        | SOUTH CAROLINA  |
281  | Cameron Industries            | TX        | TEXAS           |
282  | Cameron Industries            | TX        | TEXAS           |
283  | DC Security Applications      | VA        | VIRGINIA        |
284  | Virginia Software Industries  | VA        | VIRGINIA        |
285  +------------------------------+-----------+-----------------+
286  37 rows in set (0.00 sec)
287
288  --------------
289  -- #8
290  --------------
291
292  Query OK, 0 rows affected (0.00 sec)
293
294  --------------
295  SELECT description, companyname
296  FROM state LEFT OUTER JOIN employer USING (statecode)
297  --------------
298
299  +------------------------------+------------------------------+
300  | description                  | companyname                  |
301  +------------------------------+------------------------------+
302  | ALASKA                       | NULL                         |
303  | ALABAMA                      | ApplDesign                   |
304  | ARKANSAS                     | NULL                         |
305  | AMERICAN SAMOA               | NULL                         |
306  | ARIZONA                      | NULL                         |
307  | CALIFORNIA                   | Ajax Software, Inc.          |
308  | CALIFORNIA                   | Ajax Software, Inc.          |
```

```
309 | CALIFORNIA                     | Bay Software Inc.              |
310 | CALIFORNIA                     | Bay Software Inc.              |
311 | COLORADO                       | Mountainside Magic Software   |
312 | COLORADO                       | Mountainside Magic Software   |
313 | CONNECTICUT                    | Sandy Shore Software          |
314 | DISTRICT OF COLUMBIA           | NULL                          |
315 | DELAWARE                       | NULL                          |
316 | FLORIDA                        | Flordia Software Designs      |
317 | FLORIDA                        | Flordia Software Designs      |
318 | FEDERATED STATES OF MICRONESIA | NULL                          |
319 | GEORGIA                        | Georgia Software Design       |
320 | GUAM                           | NULL                          |
321 | HAWAII                         | NULL                          |
322 | IOWA                           | NULL                          |
323 | IDAHO                          | NULL                          |
324 | ILLINOIS                       | NULL                          |
325 | INDIANA                        | NULL                          |
326 | KANSAS                         | NULL                          |
327 | KENTUCKY                       | NULL                          |
328 | LOUISIANA                      | NULL                          |
329 | MASSACHUSETTS                  | Braddock Information Assoc.   |
330 | MASSACHUSETTS                  | Nantucket Applications, Inc.  |
331 | MARYLAND                       | NULL                          |
332 | MAINE                          | NULL                          |
333 | MARSHALL ISLANDS               | NULL                          |
334 | MICHIGAN                       | Michigan Application Design   |
335 | MINNESOTA                      | NULL                          |
336 | MISSOURI                       | NULL                          |
337 | NORTHERN MARIANA ISLANDS       | NULL                          |
338 | MISSISSIPPI                    | NULL                          |
339 | MONTANA                        | NULL                          |
340 | NORTH CAROLINA                 | NULL                          |
341 | NORTH DAKOTA                   | NULL                          |
342 | NEBRASKA                       | NULL                          |
343 | NEW HAMPSHIRE                  | NULL                          |
344 | NEW JERSEY                     | Jersey Computer Services      |
345 | NEW MEXICO                     | NULL                          |
346 | NEVADA                         | Vegas Programming and Design  |
347 | NEW YORK                       | Buffalo Software Assoc.       |
348 | NEW YORK                       | CCC Software                  |
349 | NEW YORK                       | Davis-Klein Software          |
350 | NEW YORK                       | Long Island Apps, Inc.        |
351 | NEW YORK                       | Manhattan-Made Software       |
352 | NEW YORK                       | Manhattan-Made Software       |
```

```
353  | NEW YORK                      | Midtown Software Development   |
354  | NEW YORK                      | Rochester Application Software |
355  | NEW YORK                      | Rochester Software Design      |
356  | NEW YORK                      | Western New York Applications  |
357  | NEW YORK                      | Yankee Software                |
358  | NEW YORK                      | Yankee Software                |
359  | NEW YORK                      | Yankee Software                |
360  | OHIO                          | Acme Information Source        |
361  | OKLAHOMA                      | NULL                           |
362  | OREGON                        | NULL                           |
363  | PENNSYLVANIA                  | PennState Programming, Inc.    |
364  | PENNSYLVANIA                  | PSWD, Inc.                     |
365  | PUERTO RICO                   | NULL                           |
366  | PALAU                         | NULL                           |
367  | RHODE ISLAND                  | NULL                           |
368  | SOUTH CAROLINA                | Focused Applications, Inc.     |
369  | SOUTH DAKOTA                  | NULL                           |
370  | TENNESSEE                     | NULL                           |
371  | TEXAS                         | Cameron Industries             |
372  | TEXAS                         | Cameron Industries             |
373  | UTAH                          | NULL                           |
374  | VIRGINIA                      | DC Security Applications       |
375  | VIRGINIA                      | Virginia Software Industries   |
376  | VIRGIN ISLANDS                | NULL                           |
377  | VERMONT                       | NULL                           |
378  | WASHINGTON                    | NULL                           |
379  | WISCONSIN                     | NULL                           |
380  | WEST VIRGINIA                 | NULL                           |
381  | WYOMING                       | NULL                           |
382  +------------------------------+-------------------------------+
383  80 rows in set (0.00 sec)
384
385  --------------
386  -- #9
387  --------------
388
389  Query OK, 0 rows affected (0.00 sec)
390
391  --------------
392  UPDATE employer SET companyname = 'Rochester Software Design'
393  WHERE companyname = 'Rochester Application Software'
394  --------------
395
396  Query OK, 1 row affected (0.01 sec)
```

9

```
397   Rows matched: 1  Changed: 1  Warnings: 0
398
399   --------------
400   SELECT companyname AS 'Company Name', division AS 'Division Name', CONCAT (address, ', ', zipcode) AS 'Address & Zip'
401   FROM employer
402   WHERE companyname = 'Rochester Software Design'
403   OR companyname LIKE 's%'
404   --------------
405
406   +---------------------------+--------------+---------------------------+
407   | Company Name              | Division Name | Address & Zip            |
408   +---------------------------+--------------+---------------------------+
409   | Rochester Software Design | Development  | 16 Broad Street, 14621    |
410   | Rochester Software Design | Production   | 16 Broad Street, 14621    |
411   | Sandy Shore Software      | Development  | 5665 MassPike Circle, 6482 |
412   +---------------------------+--------------+---------------------------+
413   3 rows in set (0.00 sec)
414
415   mysql> NOTEE
416
```