```
mysql> SOURCE
C:\Users\15856\Documents\Database\HomeWork\hw5\khorramrouz_hw5.sql
Database changed
--------------
SELECT companyName,division,listing FROM interview
WHERE listing = 'y'
UNION
SELECT companyName,division,listing FROM interview
WHERE listing = 'n'
--------------

+-----------------------------+-----------------+---------+
| companyName                 | division        | listing |
+-----------------------------+-----------------+---------+
| Acme Information Source     | Customer Support | y      |
| Ajax Software, Inc.         | Production      | y       |
| Ajax Software, Inc.         | RandD           | y       |
| Bay Software Inc.           | Production      | y       |
| Mountainside Magic Software | Management      | y       |
| Mountainside Magic Software | Customer Support | y      |
| Focused Applications, Inc.  | Production      | y       |
| Georgia Software Design     | RandD           | y       |
| ApplDesign                  | RandD           | y       |
| Long Island Apps, Inc.      | Development     | y       |
| Manhattan-Made Software     | Customer Support | y      |
| Manhattan-Made Software     | Payroll         | y       |
| Nantucket Applications, Inc. | RandD          | y       |
| PennState Programming, Inc. | Management      | y       |
| Buffalo Software Assoc.     | Payroll         | y       |
| Braddock Information Assoc. | Payroll         | n       |
| Vegas Programming and Design | Development    | n       |
| Cameron Industries          | Management      | n       |
| Cameron Industries          | Customer Support | n      |
| CCC Software                | Production      | n       |
| DC Security Applications    | RandD           | n       |
| Davis-Klein Software        | RandD           | n       |
| Flordia Software Designs    | RandD           | n       |
| Rochester Software Design   | Development     | n       |
| Jersey Computer Services    | Customer Support | n      |
| Flordia Software Designs    | Development     | n       |
| Sandy Shore Software        | Development     | n       |
| Virginia Software Industries | Production     | n       |
+-----------------------------+-----------------+---------+
28 rows in set (0.00 sec)

--------------
SELECT companyname, division, statecode FROM employer
INNER JOIN interview USING(companyname,division)
--------------

+-----------------------------+-----------------+-----------+
| companyname                 | division        | statecode |
+-----------------------------+-----------------+-----------+
| Acme Information Source     | Customer Support | OH       |
```

```
| Ajax Software, Inc.         | Production       | CA        |
| Ajax Software, Inc.         | RandD            | CA        |
| ApplDesign                  | RandD            | AL        |
| Bay Software Inc.           | Production       | CA        |
| Braddock Information Assoc. | Payroll          | MA        |
| Buffalo Software Assoc.     | Payroll          | NY        |
| Cameron Industries          | Customer Support | TX        |
| Cameron Industries          | Management       | TX        |
| CCC Software                | Production       | NY        |
| Davis-Klein Software        | RandD            | NY        |
| DC Security Applications    | RandD            | VA        |
| Flordia Software Designs    | Development      | FL        |
| Flordia Software Designs    | RandD            | FL        |
| Focused Applications, Inc.  | Production       | SC        |
| Georgia Software Design     | RandD            | GA        |
| Jersey Computer Services    | Customer Support | NJ        |
| Long Island Apps, Inc.      | Development      | NY        |
| Manhattan-Made Software     | Customer Support | NY        |
| Manhattan-Made Software     | Payroll          | NY        |
| Mountainside Magic Software | Customer Support | CO        |
| Mountainside Magic Software | Management       | CO        |
| Nantucket Applications, Inc.| RandD            | MA        |
| PennState Programming, Inc. | Management       | PA        |
| Rochester Software Design   | Development      | NY        |
| Sandy Shore Software        | Development      | CT        |
| Vegas Programming and Design| Development      | NV        |
| Virginia Software Industries| Production       | VA        |
+-----------------------------+------------------+-----------+
28 rows in set (0.00 sec)

--------------
SELECT * FROM state
WHERE stateCode NOT IN (
SELECT stateCode FROM state JOIN employer USING(stateCode)
)
--------------

+-----------+-------------------------------+
| stateCode | description                   |
+-----------+-------------------------------+
| AK        | ALASKA                        |
| AR        | ARKANSAS                      |
| AS        | AMERICAN SAMOA                |
| AZ        | ARIZONA                       |
| DC        | DISTRICT OF COLUMBIA          |
| DE        | DELAWARE                      |
| FM        | FEDERATED STATES OF MICRONESIA |
| GU        | GUAM                          |
| HI        | HAWAII                        |
| IA        | IOWA                          |
| ID        | IDAHO                         |
| IL        | ILLINOIS                      |
| IN        | INDIANA                       |
| KS        | KANSAS                        |
```

```
| KY         | KENTUCKY                        |
| LA         | LOUISIANA                       |
| MD         | MARYLAND                        |
| ME         | MAINE                           |
| MH         | MARSHALL ISLANDS                |
| MN         | MINNESOTA                       |
| MO         | MISSOURI                        |
| MP         | NORTHERN MARIANA ISLANDS        |
| MS         | MISSISSIPPI                     |
| MT         | MONTANA                         |
| NC         | NORTH CAROLINA                  |
| ND         | NORTH DAKOTA                    |
| NE         | NEBRASKA                        |
| NH         | NEW HAMPSHIRE                   |
| NM         | NEW MEXICO                      |
| OK         | OKLAHOMA                        |
| OR         | OREGON                          |
| PR         | PUERTO RICO                     |
| PW         | PALAU                           |
| RI         | RHODE ISLAND                    |
| SD         | SOUTH DAKOTA                    |
| TN         | TENNESSEE                       |
| UT         | UTAH                            |
| VI         | VIRGIN ISLANDS                  |
| VT         | VERMONT                         |
| WA         | WASHINGTON                      |
| WI         | WISCONSIN                       |
| WV         | WEST VIRGINIA                   |
| WY         | WYOMING                         |
+----------+-------------------------------+
43 rows in set (0.00 sec)


--------------
SELECT location, qtrCode FROM quarter
--------------

+----------+---------+
| location | qtrCode |
+----------+---------+
| CA       | 20193   |
| MA       | 20203   |
| NY       | 20191   |
| NY       | 20201   |
| NY       | 20204   |
+----------+---------+
5 rows in set (0.00 sec)

--------------
SELECT * FROM quarter
WHERE qtrCode in("20201","20204")
--------------

+---------+----------+--------+--------+
| qtrCode | location | minSal | minHrs |
```

```
+---------+----------+--------+--------+
| 20201   | NY       | 22.25  |    30  |
| 20204   | NY       | 23.75  |    40  |
+---------+----------+--------+--------+
2 rows in set (0.00 sec)

-------------
SELECT companyname, statecode,description FROM employer
JOIN state USING(statecode)
-------------


+--------------------------------+----------+----------------+
| companyname                    | statecode | description   |
+--------------------------------+----------+----------------+
| ApplDesign                     | AL       | ALABAMA        |
| Ajax Software, Inc.            | CA       | CALIFORNIA     |
| Ajax Software, Inc.            | CA       | CALIFORNIA     |
| Bay Software Inc.             | CA       | CALIFORNIA     |
| Bay Software Inc.             | CA       | CALIFORNIA     |
| Mountainside Magic Software    | CO       | COLORADO       |
| Mountainside Magic Software    | CO       | COLORADO       |
| Sandy Shore Software          | CT       | CONNECTICUT    |
| Flordia Software Designs       | FL       | FLORIDA        |
| Flordia Software Designs       | FL       | FLORIDA        |
| Georgia Software Design        | GA       | GEORGIA        |
| Braddock Information Assoc.     | MA       | MASSACHUSETTS  |
| Nantucket Applications, Inc.   | MA       | MASSACHUSETTS  |
| Michigan Application Design     | MI       | MICHIGAN       |
| Jersey Computer Services        | NJ       | NEW JERSEY     |
| Vegas Programming and Design    | NV       | NEVADA         |
| Buffalo Software Assoc.        | NY       | NEW YORK       |
| CCC Software                   | NY       | NEW YORK       |
| Davis-Klein Software           | NY       | NEW YORK       |
| Long Island Apps, Inc.        | NY       | NEW YORK       |
| Manhattan-Made Software        | NY       | NEW YORK       |
| Manhattan-Made Software        | NY       | NEW YORK       |
| Midtown Software Development    | NY       | NEW YORK       |
| Rochester Application Software  | NY       | NEW YORK       |
| Rochester Software Design       | NY       | NEW YORK       |
| Western New York Applications   | NY       | NEW YORK       |
| Yankee Software                | NY       | NEW YORK       |
| Yankee Software                | NY       | NEW YORK       |
| Yankee Software                | NY       | NEW YORK       |
| Acme Information Source        | OH       | OHIO           |
| PennState Programming, Inc.    | PA       | PENNSYLVANIA   |
| PSWD, Inc.                     | PA       | PENNSYLVANIA   |
| Focused Applications, Inc.     | SC       | SOUTH CAROLINA |
| Cameron Industries             | TX       | TEXAS          |
| Cameron Industries             | TX       | TEXAS          |
| DC Security Applications        | VA       | VIRGINIA       |
| Virginia Software Industries    | VA       | VIRGINIA       |
+--------------------------------+----------+----------------+
37 rows in set (0.00 sec)
```

```
-------------
SELECT description, companyname
FROM state
LEFT OUTER JOIN employer USING(statecode)
-------------
```

description	companyname
ALASKA	NULL
ALABAMA	ApplDesign
ARKANSAS	NULL
AMERICAN SAMOA	NULL
ARIZONA	NULL
CALIFORNIA	Ajax Software, Inc.
CALIFORNIA	Ajax Software, Inc.
CALIFORNIA	Bay Software Inc.
CALIFORNIA	Bay Software Inc.
COLORADO	Mountainside Magic Software
COLORADO	Mountainside Magic Software
CONNECTICUT	Sandy Shore Software
DISTRICT OF COLUMBIA	NULL
DELAWARE	NULL
FLORIDA	Flordia Software Designs
FLORIDA	Flordia Software Designs
FEDERATED STATES OF MICRONESIA	NULL
GEORGIA	Georgia Software Design
GUAM	NULL
HAWAII	NULL
IOWA	NULL
IDAHO	NULL
ILLINOIS	NULL
INDIANA	NULL
KANSAS	NULL
KENTUCKY	NULL
LOUISIANA	NULL
MASSACHUSETTS	Braddock Information Assoc.
MASSACHUSETTS	Nantucket Applications, Inc.
MARYLAND	NULL
MAINE	NULL
MARSHALL ISLANDS	NULL
MICHIGAN	Michigan Application Design
MINNESOTA	NULL
MISSOURI	NULL
NORTHERN MARIANA ISLANDS	NULL
MISSISSIPPI	NULL
MONTANA	NULL
NORTH CAROLINA	NULL
NORTH DAKOTA	NULL
NEBRASKA	NULL
NEW HAMPSHIRE	NULL
NEW JERSEY	Jersey Computer Services
NEW MEXICO	NULL
NEVADA	Vegas Programming and Design

```
| NEW YORK                       | Buffalo Software Assoc.        |
| NEW YORK                       | CCC Software                   |
| NEW YORK                       | Davis-Klein Software           |
| NEW YORK                       | Long Island Apps, Inc.         |
| NEW YORK                       | Manhattan-Made Software        |
| NEW YORK                       | Manhattan-Made Software        |
| NEW YORK                       | Midtown Software Development   |
| NEW YORK                       | Rochester Application Software |
| NEW YORK                       | Rochester Software Design      |
| NEW YORK                       | Western New York Applications  |
| NEW YORK                       | Yankee Software                |
| NEW YORK                       | Yankee Software                |
| NEW YORK                       | Yankee Software                |
| OHIO                           | Acme Information Source        |
| OKLAHOMA                       | NULL                           |
| OREGON                         | NULL                           |
| PENNSYLVANIA                   | PennState Programming, Inc.    |
| PENNSYLVANIA                   | PSWD, Inc.                     |
| PUERTO RICO                    | NULL                           |
| PALAU                          | NULL                           |
| RHODE ISLAND                   | NULL                           |
| SOUTH CAROLINA                 | Focused Applications, Inc.     |
| SOUTH DAKOTA                   | NULL                           |
| TENNESSEE                      | NULL                           |
| TEXAS                          | Cameron Industries             |
| TEXAS                          | Cameron Industries             |
| UTAH                           | NULL                           |
| VIRGINIA                       | DC Security Applications       |
| VIRGINIA                       | Virginia Software Industries   |
| VIRGIN ISLANDS                 | NULL                           |
| VERMONT                        | NULL                           |
| WASHINGTON                     | NULL                           |
| WISCONSIN                      | NULL                           |
| WEST VIRGINIA                  | NULL                           |
| WYOMING                        | NULL                           |
+--------------------------------+--------------------------------+
80 rows in set (0.00 sec)
```