```
MariaDB [m358b583]> show tables
    -> ;
+--------------------+
| Tables_in_m358b583 |
+--------------------+
| Enrollment         |
| Faculty            |
| Offering           |
| Student            |
| course             |
+--------------------+
5 rows in set (0.001 sec)

MariaDB [m358b583]> select * from Enr
EnrGrade              Enrollment            Enrollment.EnrGrade
Enrollment.OfferNo    Enrollment.StdNo
MariaDB [m358b583]> select * from Enrollment;
+---------+--------------+----------+
| OfferNo | StdNo        | EnrGrade |
+---------+--------------+----------+
|    1111 | 901-23-4567  |     0.00 |
|    1234 | 123-45-6789  |     3.30 |
|    1234 | 234-56-7890  |     3.50 |
|    1234 | 345-67-8901  |     3.20 |
|    1234 | 456-78-9012  |     3.10 |
|    1234 | 567-89-0123  |     3.80 |
|    1234 | 678-90-1234  |     3.40 |
|    4321 | 123-45-6789  |     3.50 |
|    4321 | 124-56-7890  |     3.20 |
|    4321 | 789-01-2345  |     3.50 |
|    4321 | 876-54-3210  |     3.10 |
|    4321 | 890-12-3456  |     3.40 |
|    4321 | 901-23-4567  |     3.10 |
|    5555 | 123-45-6789  |     3.20 |
|    5555 | 124-56-7890  |     2.70 |
|    5678 | 123-45-6789  |     3.20 |
|    5678 | 234-56-7890  |     2.80 |
|    5678 | 345-67-8901  |     3.30 |
|    5678 | 456-78-9012  |     3.40 |
|    5678 | 567-89-0123  |     2.60 |
|    5679 | 123-45-6789  |     2.00 |
|    5679 | 124-56-7890  |     3.70 |
|    5679 | 678-90-1234  |     3.30 |
|    5679 | 789-01-2345  |     3.80 |
|    5679 | 890-12-3456  |     2.90 |
|    5679 | 901-23-4567  |     3.10 |
|    6666 | 234-56-7890  |     3.10 |
|    6666 | 567-89-0123  |     3.60 |
|    7777 | 876-54-3210  |     3.40 |
|    7777 | 890-12-3456  |     3.70 |
|    7777 | 901-23-4567  |     3.40 |
|    9876 | 124-56-7890  |     3.50 |
```

```
|      9876 | 234-56-7890 |      3.20 |
|      9876 | 345-67-8901 |      3.20 |
|      9876 | 456-78-9012 |      3.40 |
|      9876 | 567-89-0123 |      2.60 |
|      9876 | 678-90-1234 |      3.30 |
|      9876 | 901-23-4567 |      4.00 |
+-----------+-------------+-----------+
38 rows in set (0.001 sec)

MariaDB [m358b583]> select * from Faculty;
+-------------+--------------+-------------+-----------+----------+---------
-+----------+-------------+---------------+--------------+-------------+
| FacNo       | FacFirstName | FacLastName | FacCity   | FacState | FacDept
| FacRank | FacSalary | FacSupervisor | FacHireDate  | FacZipCode  |
+-------------+--------------+-------------+-----------+----------+---------
-+----------+-------------+---------------+--------------+-------------+
| 098-76-5432 | LEONARD      | VINCE       | SEATTLE   | WA       | MS
| ASST    |  35000.00 | 654-32-1098   | 2007-04-10   | 98111-9921  |
| 543-21-0987 | VICTORIA     | EMMANUEL    | BOTHELL   | WA       | MS
| PROF    | 120000.00 | NULL          | 2008-04-15   | 98011-2242  |
| 654-32-1098 | LEONARD      | FIBON       | SEATTLE   | WA       | MS
| ASSC    |  70000.00 | 543-21-0987   | 2006-05-01   | 98121-0094  |
| 765-43-2109 | NICKI        | MACON       | BELLEVUE  | WA       | FIN
| PROF    |  65000.00 | NULL          | 2009-04-11   | 98015-9945  |
| 876-54-3210 | CRISTOPHER   | COLAN       | SEATTLE   | WA       | MS
| ASST    |  40000.00 | 654-32-1098   | 2011-03-01   | 98114-1332  |
| 987-65-4321 | JULIA        | MILLS       | SEATTLE   | WA       | FIN
| ASSC    |  75000.00 | 765-43-2109   | 2012-03-15   | 98114-9954  |
+-------------+--------------+-------------+-----------+----------+---------
-+----------+-------------+---------------+--------------+-------------+
6 rows in set (0.001 sec)

MariaDB [m358b583]> select * from Offering;
+---------+----------+---------+---------+-------------+----------+-------
-------+----------+
| OfferNo | CourseNo | OffTerm | OffYear | OffLocation | OffTime  | FacNo
| OffDays |
+---------+----------+---------+---------+-------------+----------+-------
-------+----------+
|    1111 | IS320    | SUMMER  |    2020 | BLM302      | 10:30:00 | NULL
| MW      |
|    1234 | IS320    | FALL    |    2019 | BLM302      | 10:30:00 | 098-
76-5432 | MW      |
|    2222 | IS460    | SUMMER  |    2019 | BLM412      | 13:30:00 | NULL
| TTH     |
|    3333 | IS320    | SPRING  |    2020 | BLM214      | 08:30:00 | 098-
76-5432 | MW      |
|    4321 | IS320    | FALL    |    2019 | BLM214      | 15:30:00 | 098-
76-5432 | TTH     |
|    4444 | IS320    | WINTER  |    2020 | BLM302      | 15:30:00 | 543-
21-0987 | TTH     |
|    5555 | FIN300   | WINTER  |    2020 | BLM207      | 08:30:00 | 765-
43-2109 | MW      |
|    5678 | IS480    | WINTER  |    2020 | BLM302      | 10:30:00 | 987-
```

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65-4321 | MW       |
|    5679 | IS480    | SPRING  |    2020 | BLM412      | 15:30:00 | 876-
54-3210 | TTH      |
|    6666 | FIN450   | WINTER  |    2020 | BLM212      | 10:30:00 | 987-
65-4321 | TTH      |
|    7777 | FIN480   | SPRING  |    2020 | BLM305      | 13:30:00 | 765-
43-2109 | MW       |
|    8888 | IS320    | SUMMER  |    2020 | BLM405      | 13:30:00 | 654-
32-1098 | MW       |
|    9876 | IS460    | SPRING  |    2020 | BLM307      | 13:30:00 | 654-
32-1098 | TTH      |
+---------+----------+---------+---------+-------------+----------+------
-------+----------+
13 rows in set (0.001 sec)

MariaDB [m358b583]> select * from Student;
+-------------+--------------+-------------+----------+----------+--------
----+----------+----------+--------+
| StdNo       | StdFirstName | StdLastName | StdCity  | StdState | StdZip
| StdMajor | StdClass | StdGPA |
+-------------+--------------+-------------+----------+----------+--------
----+----------+----------+--------+
| 123-45-6789 | HOMER        | WELLS       | SEATTLE  | WA       | 98121-
1111 | IS       | FR       |   3.00 |
| 124-56-7890 | BOB          | NORBERT     | BOTHELL  | WA       | 98011-
2121 | FIN      | JR       |   2.70 |
| 234-56-7890 | CANDY        | KENDALL     | TACOMA   | WA       | 99042-
3321 | ACCT     | JR       |   3.50 |
| 345-67-8901 | WALLY        | KENDALL     | SEATTLE  | WA       | 98123-
1141 | IS       | SR       |   2.80 |
| 456-78-9012 | JOE          | ESTRADA     | SEATTLE  | WA       | 98121-
2333 | FIN      | SR       |   3.20 |
| 567-89-0123 | MARIAH       | DODGE       | SEATTLE  | WA       | 98114-
0021 | IS       | JR       |   3.60 |
| 678-90-1234 | TESS         | DODGE       | REDMOND  | WA       | 98116-
2344 | ACCT     | SO       |   3.30 |
| 789-01-2345 | ROBERTO      | MORALES     | SEATTLE  | WA       | 98121-
2212 | FIN      | JR       |   2.50 |
| 876-54-3210 | CRISTOPHER   | COLAN       | SEATTLE  | WA       | 98114-
1332 | IS       | SR       |   4.00 |
| 890-12-3456 | LUKE         | BRAZZI      | SEATTLE  | WA       | 98116-
0021 | IS       | SR       |   2.20 |
| 901-23-4567 | WILLIAM      | PILGRIM     | BOTHELL  | WA       | 98113-
1885 | IS       | SO       |   3.80 |
+-------------+--------------+-------------+----------+----------+--------
----+----------+----------+--------+
11 rows in set (0.001 sec)

MariaDB [m358b583]> select * from course;
+----------+----------------------------------------+----------+
| CourseNo | CrsDesc                                | CrsUnits |
+----------+----------------------------------------+----------+
| FIN300   | FUNDAMENTALS OF FINANCE                |        4 |
| FIN450   | PRINCIPLES OF INVESTMENTS              |        4 |
```

```
| FIN480    | CORPORATE FINANCE                    |         4 |
| IS320     | FUNDAMENTALS OF BUSINESS PROGRAMMING |         4 |
| IS460     | SYSTEMS ANALYSIS                     |         4 |
| IS470     | BUSINESS DATA COMMUNICATIONS         |         4 |
| IS480     | FUNDAMENTALS OF DATABASE MANAGEMENT  |         4 |
+-----------+--------------------------------------+-----------+
7 rows in set (0.001 sec)

MariaDB [m358b583]> SELECT StdFirstName, StdLastName, StdCity, StdGPA
    -> FROM Student
    -> WHERE StdGPA > 3.7;
+--------------+-------------+----------+---------+
| StdFirstName | StdLastName | StdCity  | StdGPA  |
+--------------+-------------+----------+---------+
| CRISTOPHER   | COLAN       | SEATTLE  |   4.00  |
| WILLIAM      | PILGRIM     | BOTHELL  |   3.80  |
+--------------+-------------+----------+---------+
2 rows in set (0.001 sec)

MariaDB [m358b583]> SELECT StdFirstName, StdLastName, StdGPA
    -> FROM Student
    -> ORDER BY StdGPA DESC;
+--------------+-------------+---------+
| StdFirstName | StdLastName | StdGPA  |
+--------------+-------------+---------+
| CRISTOPHER   | COLAN       |   4.00  |
| WILLIAM      | PILGRIM     |   3.80  |
| MARIAH       | DODGE       |   3.60  |
| CANDY        | KENDALL     |   3.50  |
| TESS         | DODGE       |   3.30  |
| JOE          | ESTRADA     |   3.20  |
| HOMER        | WELLS       |   3.00  |
| WALLY        | KENDALL     |   2.80  |
| BOB          | NORBERT     |   2.70  |
| ROBERTO      | MORALES     |   2.50  |
| LUKE         | BRAZZI      |   2.20  |
+--------------+-------------+---------+
11 rows in set (0.001 sec)

MariaDB [m358b583]> SELECT *
    -> FROM course
    -> WHERE CourseNo LIKE 'IS4%';
+-----------+--------------------------------------+-----------+
| CourseNo  | CrsDesc                              | CrsUnits  |
+-----------+--------------------------------------+-----------+
| IS460     | SYSTEMS ANALYSIS                     |         4 |
| IS470     | BUSINESS DATA COMMUNICATIONS         |         4 |
| IS480     | FUNDAMENTALS OF DATABASE MANAGEMENT  |         4 |
+-----------+--------------------------------------+-----------+
3 rows in set (0.001 sec)

MariaDB [m358b583]> SELECT OfferNo, CourseNo
    -> FROM Offering
    -> WHERE FacNo IS NULL AND OffTerm = 'SUMMER';
```

```
+---------+----------+
| OfferNo | CourseNo |
+---------+----------+
|    1111 | IS320    |
|    2222 | IS460    |
+---------+----------+
2 rows in set (0.001 sec)

MariaDB [m358b583]> SELECT Offering.OfferNo, Offering.CourseNo,
Faculty.FacFirstName, Faculty.FacLastName
    -> FROM Offering
    -> JOIN Faculty ON Offering.FacNo = Faculty.FacNo
    -> WHERE Offering.OffTerm = 'SPRING' AND Faculty.FacRank = 'ASST';
+---------+----------+--------------+-------------+
| OfferNo | CourseNo | FacFirstName | FacLastName |
+---------+----------+--------------+-------------+
|    3333 | IS320    | LEONARD      | VINCE       |
|    5679 | IS480    | CRISTOPHER   | COLAN       |
+---------+----------+--------------+-------------+
2 rows in set (0.001 sec)

MariaDB [m358b583]> SELECT DISTINCT Faculty.FacNo, Offering.CourseNo,
Faculty.FacFirstName, Faculty.FacLastName
    -> FROM Offering
    -> JOIN Faculty ON Offering.FacNo = Faculty.FacNo
    -> WHERE Offering.OffTerm = 'SPRING' AND Faculty.FacRank = 'ASST';
+--------------+----------+--------------+-------------+
| FacNo        | CourseNo | FacFirstName | FacLastName |
+--------------+----------+--------------+-------------+
| 098-76-5432  | IS320    | LEONARD      | VINCE       |
| 876-54-3210  | IS480    | CRISTOPHER   | COLAN       |
+--------------+----------+--------------+-------------+
2 rows in set (0.001 sec)

MariaDB [m358b583]> SELECT DISTINCT FacNo
    -> FROM Offering;
+--------------+
| FacNo        |
+--------------+
| NULL         |
| 098-76-5432  |
| 543-21-0987  |
| 765-43-2109  |
| 987-65-4321  |
| 876-54-3210  |
| 654-32-1098  |
+--------------+
7 rows in set (0.001 sec)

MariaDB [m358b583]> SELECT StdFirstName AS Name
    -> FROM Student
    -> WHERE StdCity = 'BOTHELL'
    -> UNION
    -> SELECT FacFirstName AS Name
```

```
    -> FROM Faculty
    -> WHERE FacCity = 'BELLEVUE';
+----------+
| Name     |
+----------+
| BOB      |
| WILLIAM  |
| NICKI    |
+----------+
3 rows in set (0.001 sec)

MariaDB [m358b583]>  student homer wells has changed his major accounting
`ACCT`.  update the student table to reflect this change.     show the
result using `Select * From Student`
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MariaDB server version for the right syntax to
use near 'student homer wells has changed his major accounting `ACCT`.
update the stud...' at line 1
MariaDB [m358b583]> INSERT INTO Student (StdNo, StdFirstName, StdLastName,
StdCity, StdState, StdZip, StdMajor, StdClass, StdGPA)
    -> VALUES ('999-99-9999', 'John', 'Doe', 'Lawrence', 'KS', '66045',
'FIN', 'FR', NULL);
Query OK, 1 row affected (0.001 sec)

MariaDB [m358b583]> show * from Student;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MariaDB server version for the right syntax to
use near '* from Student' at line 1
MariaDB [m358b583]> show * from Students;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MariaDB server version for the right syntax to
use near '* from Students' at line 1
MariaDB [m358b583]> select * from Students;
ERROR 1146 (42S02): Table 'm358b583.Students' doesn't exist
MariaDB [m358b583]> select * from Student;
+-------------+--------------+-------------+----------+----------+--------
----+----------+----------+---------+
| StdNo       | StdFirstName | StdLastName | StdCity  | StdState | StdZip
| StdMajor | StdClass | StdGPA  |
+-------------+--------------+-------------+----------+----------+--------
----+----------+----------+---------+
| 123-45-6789 | HOMER        | WELLS       | SEATTLE  | WA       | 98121-
1111 | IS       | FR       |  3.00 |
| 124-56-7890 | BOB          | NORBERT     | BOTHELL  | WA       | 98011-
2121 | FIN      | JR       |  2.70 |
| 234-56-7890 | CANDY        | KENDALL     | TACOMA   | WA       | 99042-
3321 | ACCT     | JR       |  3.50 |
| 345-67-8901 | WALLY        | KENDALL     | SEATTLE  | WA       | 98123-
1141 | IS       | SR       |  2.80 |
| 456-78-9012 | JOE          | ESTRADA     | SEATTLE  | WA       | 98121-
2333 | FIN      | SR       |  3.20 |
| 567-89-0123 | MARIAH       | DODGE       | SEATTLE  | WA       | 98114-
0021 | IS       | JR       |  3.60 |
```

```
| 678-90-1234 | TESS          | DODGE        | REDMOND   | WA       | 98116-
2344 | ACCT      | SO        |    3.30 |
| 789-01-2345 | ROBERTO       | MORALES      | SEATTLE   | WA       | 98121-
2212 | FIN       | JR        |    2.50 |
| 876-54-3210 | CRISTOPHER    | COLAN        | SEATTLE   | WA       | 98114-
1332 | IS        | SR        |    4.00 |
| 890-12-3456 | LUKE          | BRAZZI       | SEATTLE   | WA       | 98116-
0021 | IS        | SR        |    2.20 |
| 901-23-4567 | WILLIAM       | PILGRIM      | BOTHELL   | WA       | 98113-
1885 | IS        | SO        |    3.80 |
| 999-99-9999 | John          | Doe          | Lawrence  | KS       | 66045
| FIN       | FR        |    NULL |
+-------------+---------------+--------------+-----------+----------+--------
----+-----------+-----------+---------+
12 rows in set (0.001 sec)

MariaDB [m358b583]> UPDATE Student
    -> SET StdMajor = 'ACCT'
    -> WHERE StdFirstName = 'HOMER' AND StdLastName = 'WELLS';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [m358b583]>
MariaDB [m358b583]> SELECT * FROM Student;
+-------------+---------------+--------------+-----------+----------+--------
----+-----------+-----------+---------+
| StdNo       | StdFirstName  | StdLastName  | StdCity   | StdState | StdZip
| StdMajor  | StdClass  | StdGPA  |
+-------------+---------------+--------------+-----------+----------+--------
----+-----------+-----------+---------+
| 123-45-6789 | HOMER         | WELLS        | SEATTLE   | WA       | 98121-
1111 | ACCT      | FR        |    3.00 |
| 124-56-7890 | BOB           | NORBERT      | BOTHELL   | WA       | 98011-
2121 | FIN       | JR        |    2.70 |
| 234-56-7890 | CANDY         | KENDALL      | TACOMA    | WA       | 99042-
3321 | ACCT      | JR        |    3.50 |
| 345-67-8901 | WALLY         | KENDALL      | SEATTLE   | WA       | 98123-
1141 | IS        | SR        |    2.80 |
| 456-78-9012 | JOE           | ESTRADA      | SEATTLE   | WA       | 98121-
2333 | FIN       | SR        |    3.20 |
| 567-89-0123 | MARIAH        | DODGE        | SEATTLE   | WA       | 98114-
0021 | IS        | JR        |    3.60 |
| 678-90-1234 | TESS          | DODGE        | REDMOND   | WA       | 98116-
2344 | ACCT      | SO        |    3.30 |
| 789-01-2345 | ROBERTO       | MORALES      | SEATTLE   | WA       | 98121-
2212 | FIN       | JR        |    2.50 |
| 876-54-3210 | CRISTOPHER    | COLAN        | SEATTLE   | WA       | 98114-
1332 | IS        | SR        |    4.00 |
| 890-12-3456 | LUKE          | BRAZZI       | SEATTLE   | WA       | 98116-
0021 | IS        | SR        |    2.20 |
| 901-23-4567 | WILLIAM       | PILGRIM      | BOTHELL   | WA       | 98113-
1885 | IS        | SO        |    3.80 |
| 999-99-9999 | John          | Doe          | Lawrence  | KS       | 66045
| FIN       | FR        |    NULL |
```

```
    +--------------+--------------+--------------+----------+----------+--------
    ----+----------+----------+--------+
    12 rows in set (0.000 sec)

    MariaDB [m358b583]> SELECT *
        -> FROM Student
        -> WHERE StdNo IN (SELECT FacNo FROM Faculty);
    +--------------+--------------+--------------+----------+----------+--------
    ---+----------+----------+--------+
    | StdNo        | StdFirstName | StdLastName  | StdCity  | StdState | StdZip
    | StdMajor | StdClass | StdGPA |
    +--------------+--------------+--------------+----------+----------+--------
    ---+----------+----------+--------+
    | 876-54-3210 | CRISTOPHER   | COLAN        | SEATTLE  | WA       | 98114-
    1332 | IS       | SR       |  4.00 |
    +--------------+--------------+--------------+----------+----------+--------
    ---+----------+----------+--------+
    1 row in set (0.001 sec)

    MariaDB [m358b583]>
```