

1. Retrieve students with a GPA higher than 3.7. Display the Student First Name, Last Name, City and GPA.

*Command:* SELECT StdFirstName, StdLastName, StdCity, StdGPA FROM Student WHERE StdGPA > 3.7;

*Output:*

```
+-----+-----+-----+-----+
| StdFirstName | StdLastName | StdCity | StdGPA |
+-----+-----+-----+-----+
| CRISTOPHER   | COLAN       | SEATTLE | 4.00   |
| WILLIAM      | PILGRIM     | BOTHELL | 3.80   |
+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

2. Display Student First Name, Last Name and GPA of students in descending order of GPA

*Command:* SELECT StdFirstName, StdLastName, StdGPA FROM Student ORDER BY StdGPA DESC;

*Output:*

```
MariaDB [348f23_m668s124]> 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)

3. Retrieve all the information about senior-level IS courses

*Command:* SELECT \* FROM course WHERE CourseNo LIKE 'IS%';

*Output:*

```
MariaDB [348f23_m668s124]> SELECT * FROM course WHERE CourseNo LIKE 'IS%';
```

CourseNo	CrsDesc	CrsUnits
IS320	FUNDAMENTALS OF BUSINESS PROGRAMMING	4
IS460	SYSTEMS ANALYSIS	4
IS470	BUSINESS DATA COMMUNICATIONS	4
IS480	FUNDAMENTALS OF DATABASE MANAGEMENT	4

4 rows in set (0.002 sec)

4. List offerings without an instructor in summer. Display the Offering and Course number

*Command:* SELECT OfferNo, CourseNo FROM Offering WHERE OffTerm = "SUMMER" AND FacNo IS NULL;

*Output:*

```
MariaDB [348f23_m668s124]> SELECT OfferNo, CourseNo FROM Offering WHERE OffTerm = "SUMMER" AND FacNo IS NULL;
+-----+-----+
| OfferNo | CourseNo |
+-----+-----+
| 1111 | IS320 |
| 2222 | IS460 |
+-----+-----+
2 rows in set (0.001 sec)
```

5. Display Offering number, course number, Faculty First and Last Name for courses offered in the spring, faculty rank as assistant (ASST) and faculty number the same as offering faculty number

*Command:* SELECT O.OfferNo, O.CourseNo, F.FacFirstName, F.FacLastName FROM Offering O, Faculty F  
WHERE O.OffTerm = "SPRING" AND F.FacNo = O.FacNo AND F.FacRank = "ASST";

*Output:*

```
MariaDB [348f23_m668s124]> SELECT O.OfferNo, O.CourseNo,  
+-----+-----+-----+-----+  
| OfferNo | CourseNo | FacFirstName | FacLastName |  
+-----+-----+-----+-----+  
|    3333 | IS320    | LEONARD      | VINCE        |  
|    5679 | IS480    | CRISTOPHER   | COLAN        |  
+-----+-----+-----+-----+  
2 rows in set (0.002 sec)
```

6. Display Distinct Faculty number in Offering Table

*Command:* SELECT DISTINCT FacNo FROM Offering;

*Output:*

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)

7. Display First Names of Students that live in Bothell and Faculty that live in Bellevue. Use UNION

*Command:* SELECT StdFirstName AS Name FROM Student WHERE StdCity = "BOTHELL" UNION SELECT FacFirstName FROM Faculty WHERE FacCity = "BELLEVUE";

*Output:*

```
MariaDB [348f23_m668s124]> SELE
+-----+
| Name   |
+-----+
| BOB    |
| WILLIAM|
| NICKI  |
+-----+
3 rows in set (0.001 sec)
```

8. Insert Finance Freshman “John Doe” from Lawrence, Kansas, 66045 with student no 999-99-9999 and GPA 4.0 into the student table. Show the result using Select \* From Student

*Command:* INSERT INTO Student VALUES ("999-99-9999", "JOHN", "DOE", "LAWRENCE", "KS", "66045", "FIN", "FR", "4.00");

*Output:*

```
MariaDB [348f23_m668s124]> 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	4.00

```
12 rows in set (0.001 sec)
```

```
MariaDB [348f23_m668s124]> S
```



9. Student Homer Wells has changed his major to Accounting (Acct). Update the student table to reflect this change. Show the result using Select \* From Student

**Command:** UPDATE Student SET StdMajor = "ACCT" WHERE StdNo = "123-45-6789";

**Output:**

MariaDB [348f23\_m668s124]> 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	4.00

12 rows in set (0.001 sec)

MariaDB [348f23\_m668s124]>

```
MariaDB [348f23_m668s124]> SELECT S.* FROM Student S, Faculty F WHERE S.StdNo = F.FacNo;
```

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)