1.

SELECT \* FROM Faculty;

2.

-- Need hyphens in constant

SELECT \*

FROM Faculty

WHERE FacNo = '543-21-0987';

3.

SELECT FacFirstName, FacLastName, FacSalary

FROM Faculty

WHERE FacSalary > 65000 AND FacRank = 'PROF';

-- No rows returned due to lower case constant

SELECT FacFirstName, FacLastName, FacSalary

FROM Faculty

WHERE FacSalary > 65000 AND FacRank = 'prof';

4

-- Duplicate rows in the result

SELECT FacCity, FacState

FROM Faculty;

-- Duplicate rows eliminated

SELECT DISTINCT FacCity, FacState

FROM Faculty;

5.

SELECT FacFirstName, FacLastName, FacCity,

FacSalary\*1.1 AS IncreasedSalary,

FacHireDate

FROM Faculty

WHERE (date\_format(FacHireDate, '%Y')) > 2005;

6.

SELECT \*

FROM Offering

WHERE CourseNo LIKE 'IS%';

7.

SELECT FacFirstName, FacLastName, FacHireDate

FROM Faculty

WHERE FacHireDate BETWEEN '2008-01-01'

AND '2009-12-31';

8.

SELECT OfferNo, CourseNo

FROM Offering

WHERE FacNo IS NULL AND OffTerm = 'SUMMER'

AND OffYear = 2017;

9.

SELECT OfferNo, CourseNo, FacNo

FROM Offering

WHERE (OffTerm = 'FALL' AND OffYear = 2016)

OR (OffTerm = 'WINTER' AND OffYear = 2017);

Lesson 4

1.

SELECT OfferNo, CourseNo, FacFirstName, FacLastName

FROM Offering, Faculty

WHERE OffTerm = 'FALL' AND OffYear = 2016

AND FacRank = 'ASST' AND CourseNo LIKE 'IS%'

AND Faculty.FacNo = Offering.FacNo;

2.

SELECT OfferNo, CourseNo, FacFirstName, FacLastName

FROM Offering INNER JOIN Faculty

ON Faculty.FacNo = Offering.FacNo

WHERE OffTerm = 'FALL' AND OffYear = 2016

AND FacRank = 'ASST' AND CourseNo LIKE 'IS%';

3.

SELECT OfferNo, Offering.CourseNo, OffDays,

CrsUnits, OffLocation, OffTime

FROM Faculty, Course, Offering

WHERE Faculty.FacNo = Offering.FacNo

AND Offering.CourseNo = Course.CourseNo

AND OffYear = 2016 AND OffTerm = 'FALL'

AND FacFirstName = 'LEONARD'

AND FacLastName = 'VINCE';

4.

SELECT OfferNo, Offering.CourseNo, OffDays,

CrsUnits, OffLocation, OffTime

FROM Offering INNER JOIN Course

ON Offering.CourseNo = Course.CourseNo

INNER JOIN Faculty

ON Offering.FacNo = Faculty.FacNo

WHERE OffYear = 2016 AND OffTerm = 'FALL'

AND FacFirstName = 'LEONARD'

AND FacLastName = 'VINCE';

Lesson 5

1.

SELECT FacNo, FacRank, FacSalary

FROM Faculty

ORDER BY FacRank;

2.

SELECT FacRank,

AVG(FacSalary) AS AvgSalary

FROM Faculty

GROUP BY FacRank

ORDER BY FacRank;

3.

SELECT StdMajor, AVG(StdGPA) AS AvgGpa

FROM Student

WHERE StdClass IN ('JR', 'SR')

GROUP BY StdMajor;

4.

SELECT StdMajor, AVG(StdGPA) AS AvgGpa

FROM Student

WHERE StdClass IN ('JR', 'SR')

GROUP BY StdMajor

HAVING AVG(StdGPA) > 3.1;