

Oracle Examples in Module 4

```
SET LINESIZE 32000;  
SET PAGESIZE 60;
```

Lesson 2

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';
```

4.

```
SELECT FacCity, FacState  
FROM Faculty;
```

```
SELECT DISTINCT FacCity, FacState  
FROM Faculty;
```

5.

```
SELECT FacFirstName, FacLastName, FacCity,  
       FacSalary*1.1 AS IncreasedSalary,  
       FacHireDate  
FROM Faculty  
WHERE to_number(to_char(FacHireDate, 'YYYY')) > 2005;
```

6.

```
SELECT *  
FROM Offering  
WHERE CourseNo LIKE 'IS%';
```

7.

```
SELECT FacFirstName, FacLastName, FacHireDate  
FROM Faculty  
WHERE FacHireDate BETWEEN '1-Jan-2008'  
AND '31-Dec-2009';
```

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;
```