Solutions

1.

a. Display the course ID and course name for all courses with an ISM prefix.

```
Query:
```

SELECT CourseID, CourseName
 FROM Course
 WHERE CourseID LIKE 'ISM%';

b. Display all courses for which Professor Berndt has been qualified.

Query:

c. Display the class roster, including student name, for all students enrolled in section 2714 of ISM 4212.

Query:

2. Which instructors are qualified to teach ISM 3113?

Query:

```
SELECT Faculty.FacultyName
    FROM Faculty, Qualified
    WHERE Qualified.FacultyID=Faculty. FacultyID
    AND Qualified.CourseID='ISM 3113';
```

3. Is any instructor qualified to teach ISM 3113 and not qualified to teach ISM 4930?

Query:

```
SELECT Faculty.FacultyID, Faculty.FacultyName
FROM Faculty, Qualified
WHERE Qualified.FacultyID=Faculty.FacultyID
AND Qualified.CourseID='ISM 3113'
MINUS
SELECT Faculty.FacultyID, Faculty.FacultyName
FROM Faculty, Qualified
WHERE Qualified.FacultyID=Faculty.FacultyID
AND Qualified.CourseID='ISM 4930'
```

4.

a. How many students are enrolled in section 2714 during semester I-2008?

```
Query:
```

```
SELECT COUNT (DISTINCT (StudentID))
    FROM Registration
    WHERE SectionID = 2714
    AND Semester = 'I-2008';
```

b. How many students are enrolled in ISM 3113 during semester I-2008?

```
Query:
```

```
SELECT COUNT (DISTINCT (StudentID))
FROM Section, Registration
WHERE Section.SectionNo = Registration.SectionNo
AND CourseID = 'ISM 3113'
AND Semester = 'I-2008';
```

5. Which students were not enrolled in any courses during semester I-2008?

Query:

```
SELECT DISTINCT StudentID, Student_NAME
FROM Student
WHERE NOT EXISTS
(SELECT * FROM Registration
WHERE Student.StudentID =
Registration.StudentID
AND Semester= 'I-2008');
```