

1. **What is the course_id and grade of each course that the student *Brown* has taken?**

```
SELECT Course_Id, Grade
FROM Takes
WHERE Id =
    (SELECT Id
     FROM Student
     WHERE Name = 'Brown');
```

2. **What are the names of all students that have taken a course taught by an instructor named *Katz*? (make sure there are no duplicates)**

```
SELECT DISTINCT Student.Name
FROM ((Student
JOIN Course ON Student.Dept_Name = Course.Dept_Name
JOIN Instructor ON Instructor.Dept_Name = Course.Dept_Name))
WHERE Instructor.Name = 'Katz';
```

3. **What are the names of all students that have passed (a C or better) the course *Intro to Computer Science*?**

```
SELECT Student.Name, Takes.Grade
FROM Student
INNER JOIN Takes ON Student.Id = Takes.Id
WHERE Takes.Grade IN ('A+', 'A', 'A-', 'B+', 'B', 'B-', 'C+', 'C') AND
    (Takes.Course_Id =
        (SELECT Course_Id
         FROM COURSE
         Where Title = 'Intro. to Computer Science'));
```

4. **What are the names and total number of sections each instructor has taught? (show 0 for instructors who have not taught any sections)**

```
SELECT Instructor.Name, Count(Teaches.Sec_id)
FROM Instructor
```

```
LEFT JOIN TEACHES ON Instructor.Id = Teaches.Id  
GROUP BY Instructor.Name;
```

5. CREATE VIEW OFFERING AS

```
SELECT Teaches.Course_Id, Teaches.Sec_Id, Course.Title, Teaches.Semester, Teaches.Year,  
       Course.Dept_Name AS Dept_Nm, Course.Credits, Instructor.Name AS Instr_Nm  
FROM Teaches, Course, Instructor  
WHERE Instructor.Id = Teaches.Id AND Teaches.Course_Id = Course.Course_id;
```