**A:07**

1. List the course number, description and cost for all courses taught by Charles Lowry.  
   Arrange the list in order of course number.

**SELECT c.course\_no, c.description, c.cost,**

**i.first\_name||' '||i.last\_name AS "Instructor Name"**

**FROM course c, instructor i, section s**

**WHERE c.course\_no = s.course\_no**

**AND s.instructor\_id = i.instructor\_id**

**AND i.first\_name = 'Charles'**

**AND i.last\_name = 'Lowry'**

**ORDER BY c.course\_no;**

1. List the full name and phone number for students that live in Newark, NJ.

**SELECT s.first\_name||' '||s.last\_name AS "Student Name",**

**s.phone, z.city||', '||z.state AS “City, State”**

**FROM student s, zipcode z**

**WHERE s.zip = z.zip**

**AND z.city = 'Newark'**

**ORDER BY s.last\_name;**

1. Provide a listing of courses that include projects as a part of their grade.

**SELECT s.course\_no**

**FROM grade g, section s**

**WHERE g.section\_id = s.section\_id**

**AND g.grade\_type\_code = 'PJ'**

**GROUP BY s.course\_no**

**ORDER BY s.course\_no;**

1. List the grade type code, description and number per section of all grades in course 144. Arrange by description.

**SELECT g.grade\_type\_code, t.description,**

**COUNT(s.section\_id) "Number per Section"**

**FROM grade g, grade\_type t, section s**

**WHERE g.grade\_type\_code = t.grade\_type\_code**

**AND g.section\_id = s.section\_id**

**AND s.course\_no = 144**

**GROUP BY g.grade\_type\_code, t.description**

**ORDER BY t.description;**

1. Provide a list of students (student ID and name) that have an overall grade average of 89 or higher.  
   The name should be one column, last name then first and sorted on last name plus first name.

**SELECT s.student\_id,**

**CONCAT(CONCAT(s.last\_name, ', '), s.first\_name) AS "Student Name",**

**ROUND(AVG(g.numeric\_grade), 1) AS "Overall Grade Average"**

**FROM student s, grade g**

**WHERE s.student\_id = g.student\_id**

**GROUP BY s.student\_id, s.last\_name, s.first\_name**

**HAVING AVG(g.numeric\_grade) > 88**

**ORDER BY s.last\_name, s.first\_name;**

1. List the course number and number of students enrolled in courses that don’t have a prerequisite. Sort the list by course number.

**SELECT c.course\_no, COUNT(e.student\_id) AS "Total Student Enrolled"**

**FROM course c, enrollment e, section s**

**WHERE s.course\_no = c.course\_no**

**AND s.section\_id = e.section\_id**

**AND c.prerequisite IS NULL**

**GROUP BY c.course\_no**

**ORDER BY c.course\_no;**

1. List the names and address (including city and state) for all faculty who have taught less than 10 courses.

**SELECT i.first\_name, i.last\_name,**

**i.street\_address, z.city, z.state, z.zip,**

**COUNT(s.course\_no)**

**FROM instructor i, section s, zipcode z**

**WHERE i.instructor\_id = s.instructor\_id**

**AND i.zip = z.zip**

**GROUP BY i.first\_name, i.last\_name,**

**i.street\_address, z.city, z.state, z.zip**

**HAVING COUNT(s.course\_no) < 10;**

1. List the single highest grade on the final exam that was given to a student in course 145.

**SELECT MAX(g.numeric\_grade) AS "Class High Score"**

**FROM grade g, grade\_type t, section s**

**WHERE g.grade\_type\_code = t.grade\_type\_code**

**AND g.section\_id = s.section\_id**

**AND t.description = 'Final'**

**AND s.course\_no = 145;**

1. For all 200 level courses (200-299), list the course number, prerequisite course number and prerequisite course description. Sort by course number.

**SELECT c1.course\_no, c1.prerequisite AS "Prerequisite Course #",**

**c2.description AS "Prerequisite Description"**

**FROM course c1 JOIN course c2**

**ON c1.prerequisite = c2.course\_no**

**WHERE (c1.course\_no BETWEEN 200 AND 299)**

**AND (c1.prerequisite IS NOT NULL)**

**ORDER BY c1.course\_no;**

1. Provide an alphabetic list of students (full name and phone number) from Flushing, NY who enrolled prior to 10:20am on February 2, 2007.

**SELECT DISTINCT(CONCAT(CONCAT(s.first\_name, ' '), s.last\_name)) AS "Student Name",**

**s.phone**

**FROM student s, zipcode z, enrollment e**

**WHERE (s.zip = z.zip)**

**AND (z.city = 'Flushing')**

**AND (z.state = 'NY')**

**AND (e.enroll\_date <= TO\_DATE('02-FEB-2007 10:20:00', 'dd-mon-yyyy HH24:MI:SS'))**

**ORDER BY "Student Name";**