

```
USE Student2550;
```

```
/* 1. Provide a list of distinct locations that have been used to  
teach sections of courses. Arrange the list in order of  
location. (12 rows returned) */
```

```
SELECT DISTINCT  
    Location  
FROM  
    Section  
ORDER BY Location;
```

```
/* 2. List the phone number, full name (as one column) and  
employer for all students with a last name of "Torres". Sort by  
Employer (3 rows returned) */
```

```
SELECT  
    Phone,  
    CONCAT(first_name, ' ', last_name) AS 'Full Name',  
    employer  
FROM  
    Student  
WHERE  
    Last_name = 'Torres'  
ORDER BY Employer;
```

```
/* 3. List the course number and course description of all  
courses that have a prerequisite of course 350. Arrange in order  
of course number. (2 rows returned) */
```

```
SELECT  
    Course_no, Description  
FROM  
    Course  
WHERE  
    Prerequisite = 350  
ORDER BY Course_no;
```

```
/* 4. List the course number, description and cost for all 200  
level courses (200-299) costing less than $1100. Arrange by  
course number. Format and add a $ in front of the COST. (2 rows  
returned) */
```

```
SELECT  
    Course_no, Description, CONCAT('$', Cost)  
FROM  
    Course  
WHERE  
    Course_no BETWEEN 200 AND 299
```

```
        AND Cost < 1100
ORDER BY Course_no;
```

```
/* 5. List the course number, section id and location for all 100
level courses (100 through 199) that are taught in room L214 or
L509. Order by location and course number. (26 rows returned) */
SELECT
```

```
    Course_no, Section_id, location
FROM
    Section
WHERE
    Course_no BETWEEN 100 AND 199
    AND Location IN ('L214' , 'L509')
ORDER BY Location , Course_no;
```

```
/* 6. List the course number and section id for classes with a
capacity of 12 or 15 (use the IN clause). Order the list by
course number and section id. (28 rows returned) */
```

```
SELECT
    Course_no, section_id
FROM
    Section
WHERE
    Capacity IN (12 , 15)
ORDER BY Course_no , Section_id;
```

```
/* 7. List the student ID and GRADE for all of the midterm exam
scores (MT) in section 141. Arrange the list by student ID and
grade. (6 rows returned) */
```

```
SELECT
    Student_id, Numeric_grade
FROM
    Grade
WHERE
    Grade_Type_Code = 'MT'
    AND Section_id = 141
ORDER BY Student_id , Grade_Type_Code;
```

```
/* 8. List the course number and description for all 300 level
courses that have a prerequisite, arranged on course description.
(2 rows returned) */
```

```
SELECT
    Course_no, Description
FROM
    Course
```

```
WHERE
    Course_no BETWEEN 300 AND 399
    AND Prerequisite IS NOT NULL
ORDER BY Description;
```

```
/* 9. Provide an alphabetical list of the full name and phone
number of all students that work for 'New York Culture' (the full
name should be displayed as one column with an alias of 'Student
Name') (4 rows returned) */
```

```
SELECT
    CONCAT(First_Name, ' ', Last_Name) AS 'Student Name', Phone
FROM
    Student
WHERE
    Employer = 'New York Culture'
ORDER BY First_Name;
```

```
/* 10. Provide a list of student employers that are corporations
(have "Co." in their name). List each employer only once and
arrange the list alphabetical order. (5 rows returned) */
```

```
SELECT DISTINCT
    Employer
FROM
    Student
WHERE
    Employer LIKE '%co.'
ORDER BY Employer;
```

```
/* 11. Provide an alphabetical list of students in area code 617.
List student name in the format <last name (all upper case)>,
<first initial>. ( Example, SMITH, J. ) followed by the phone
number. (5 rows returned) */
```

```
SELECT
    CONCAT(UPPER(Last_name),
        ' ',
        LEFT(First_name, 1)) AS 'Student Name',
    Phone
FROM
    Student
WHERE
    Phone LIKE '617%'
ORDER BY Last_Name;
```

```
/* 12. List the name and address of all instructors without a zip
code. (1 row returned) */
```

```

SELECT
    First_Name, Last_Name, Street_Address, Zip
FROM
    Instructor
WHERE
    Zip IS NULL;

```

/\* 13 Provide a list of zip codes for Jackson Heights, NY. Sort on zip. (3 rows returned) \*/

```

SELECT
    Zip
FROM
    Zipcode
WHERE
    City = 'Jackson Heights'
    AND State = 'NY'
ORDER BY Zip;

```

/\* 14. List the course number and location for all courses taught in a classroom that ends in the number 10. Arrange the list on location. (11 rows returned) \*/

```

SELECT
    Course_no, Location
FROM
    Section
WHERE
    Location LIKE '%10'
ORDER BY Location;

```

/\* 15. Provide a list containing full state name, state abbreviation and city from the zip code table for MA, OH, PR and WV. (You'll need to use the CASE expression). MA is Massachusetts, OH is Ohio, PR is Puerto Rico and WV is West Virginia. Sort by state. (8 rows returned) \*/

```

SELECT
    CASE (STATE)
        WHEN 'MA' THEN 'Massachusetts'
        WHEN 'OH' THEN 'Ohio'
        WHEN 'PR' THEN 'Puerto Rico'
        WHEN 'WV' THEN 'West Virginia'
    END AS 'State Name',
    State,
    City
FROM
    Zipcode

```

```
WHERE
    State IN ('MA' , 'OH', 'PR', 'WV')
ORDER BY State;
```

```
/* 16. Create a listing containing a single column address
(salutation, first name, last name, address, zip) as 'Instructor
Address' for each instructor in zip code 10015. Sort the list in
alphabetical order. (3 rows returned) */
```

```
SELECT
    CONCAT(Salutation,
            ' . ',
            first_name,
            ' ',
            last_name,
            ' ',
            street_address,
            ' ',
            zip) AS 'Instructor Address'
FROM
    Instructor
WHERE
    Zip = 10015
ORDER BY Salutation , first_name;
```

```
/* 17. List the student ID, final exam (FI) score and exam result
('PASS' or 'FAIL') for all students in section 156. A final score
of 85 or higher is required to pass. Arrange the list by student
ID. (8 rows returned) */
```

```
SELECT
    CASE (Grade_Type_Code)
        WHEN 'FI' >= 85 THEN 'PASS'
        ELSE 'FAIL'
    END AS 'Exam Result',
    student_id
FROM
    Grade
WHERE
    Grade_Type_Code = 'FI'
    AND Section_id = 156
ORDER BY student_id;
```

```
/* 18. List the first name, last name and phone number for all
students that registered on 2/13/2007. Arrange the list in order
of last name and first name. (29 rows returned) */
```

```
SELECT
```

```
    First_Name, Last_Name, Phone
FROM
    Student
WHERE
    Registration_date = '2007-02-13'
ORDER BY Last_Name , First_Name;
```

```
/* 19. List course number, section ID and start date for all
sections located in L509. Arrange by start date (25 rows
returned) */
```

```
SELECT
    Course_no, Section_id, Start_Date_Time
FROM
    Section
WHERE
    Location = 'L509'
ORDER BY Start_Date_Time;
```

```
/* 20. List the course number, section ID, start date, instructor
ID and capacity for all Sections with a start date in July 2019.
Arrange the list by start date and course number. (14 rows
returned) */
```

```
SELECT
    Course_no,
    Section_id,
    Start_DATE_Time,
    Instructor_id,
    Capacity
FROM
    Section
WHERE
    Start_Date_Time BETWEEN '2019-07-01' AND '2019-07-30'
ORDER BY Start_Date_Time , Course_no;
```