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SQL Assignment 4

1.
```sql
SELECT first_name, Last_name, Phone, City, State AS ST, employer
FROM Student s
INNER JOIN Zipcode z
ON s.zip = z.zip
WHERE Employer = 'New York Pop'
ORDER BY City, State, last_name , first_name;
```

2.
```sql
select s.employer, z.city, z.state
from student s
inner join zipcode z
on s.zip = z.zip
WHERE employer like '%&%'
order by s.employer, z.city, z.state
```

3.
```sql
select upper(last_name) ||' '|| substr(first_name ,0,1)||'.' as "Student
Name", lpad(phone,15,'*') as phone,city
from student s
inner join zipcode z
on s.zip = z.zip
where substr(phone, 1,3) = '617'
order by "Student Name";
```

4.
```sql
SELECT First_name, Last_name, Street_address, Description
FROM Instructor i
INNER JOIN  Zipcode z
ON i.zip = z.zip
INNER JOIN Section s
ON i.Instructor_id = s.Instructor_id
INNER JOIN Course c
ON s.course_no = c.course_no
WHERE i.Zip = '10035'
ORDER BY c.description;
```

5.
```sql
SELECT Student_id, First_name, Last_name, z.Zip, City, State AS ST
FROM Student s
INNER JOIN Zipcode z
ON s.zip = z.zip
WHERE City = 'Jamaica' AND State = 'NY'
ORDER BY z.zip, student_id;
```

6.
```sql
SELECT c.course_no, description, Location
FROM Course c
INNER JOIN Section s
ON c.course_no = s.course_no
WHERE SUBSTR(Location ,2, 1) = '3'
```

```
ORDER BY Location, c.course_no;
7.
SELECT
CASE
WHEN STATE = 'FL' THEN 'Florida'
WHEN STATE = 'MI' THEN 'Michigan'
WHEN STATE = 'GA' THEN 'Georgia'
WHEN STATE = 'PR' THEN 'Puerto Rico'
WHEn STATE = 'WV' THEN 'West Virginia'
END AS FULLSTATENAME , State, City
FROM Zipcode
WHERE State IN ('FL', 'MI','GA', 'PR', 'WV')
ORDER BY State;

8.
select first_name ||' '|| last_name ||' '|| street_address ||' '|| city
||' '|| state ||' '|| i.zip as "Instructor Address"
from instructor i
inner join zipcode z
on i.zip = z.zip
order by z.zip, last_name, first_name;

9.
SELECT First_name, Last_name, s.Student_id, Numeric_grade
FROM Student s
INNER JOIN Enrollment e
ON s.student_id = e.student_id
INNER JOIN Grade g
ON e.student_id = g.student_id
AND e.section_id = g.section_id
WHERE g.section_id = '119' AND Grade_type_code = 'QZ'
ORDER BY Numeric_grade desc, Student_id;


10.
select first_name, last_name, s.student_id, numeric_grade,sect.section_id,
case
when numeric_grade < 85 then 'fail'
else 'pass'
end as Result
from student s
inner join enrollment e
on s.student_id = e.student_id
inner join grade g
on g.student_id = e.student_id
and
g.section_id = e.section_id
inner join section sect
on e.section_id = sect.section_id
where grade_type_code = 'FI' and sect.section_id = '147'
order by result desc, g.numeric_grade desc,last_name, first_name;
```