Austin Johns

CST-217

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Chapter 5 Homework

**5.15**

For the function:

BEGIN

Declare result integer;

Select avg(salary) into result

From works

Where works.company\_name = cname;

Return result;

End

Without the function:

Select company\_name

From works

Group by company\_name

Having avg(salary)>

(select avg (salary)

From works

Where company\_name = “First Bank Corportation”);

**5.16**

With insert\_count(dept\_name, number) as

(select dept\_name, count(ID) from instructor group by dept\_name)

Select dept\_name, budget from department, insert\_count

Where department.dept\_name = insert\_count.dept\_name and number>12

**5.18**

With recursive prereq\_depth(course­id, prereq\_id, depth) as

(select course\_id, prereq\_id, 0 from prereq union

Select prereq.course\_id, prereq\_depth.prereq\_id, (prereq\_depth.depth+1)

From prereq.prereq\_depth

Where prereq.prereq\_id = prereq\_depth.course\_id)

Select from prereq\_depth;

**5.23**

The result of the query in this problem would give the courses in different groups. The first line would result in the three records with different building names. Room\_number and time\_slot\_id would be null. The second line results in five records returning different building names. For this query, the room numbers and time\_slot\_id are null. For the third query in this problem, it is calling building, room\_number, and time\_slot\_id. This would call all 6 records in the system.

**5.24**

**5.25**

With s\_grades as

Select ID, rank() over (order by (GPA)desc)as s\_rank from student\_grades

Select ID, s\_rank from s\_grades where s\_rank < 10;