

DBMS - LAB 6(UE19CS304)

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TASK - SQL Aggregate functions:

Contains: 1,2,3,4:

```
Windows PowerShell
PS C:\Program Files\PostgreSQL\13\bin> .\psql -U postgres
Password for user postgres:
psql (13.4)
WARNING: Console code page (437) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

postgres=# \c company1
You are now connected to database "company1" as user "postgres".
company1=# select salary*1.1 as salary_hike from employee as e , project as p , works_on as w where p.pname='ProductX' and e.dno=p.dnum and p.pnumber=w.pno
and e.ssn=w.essn;
 salary_hike
-----
 33000.000
 27500.000
(2 rows)

company1=# select sum(salary),max(salary),min(salary),avg(salary) from (employee join department on Dno=Dnumber) where Dname='Research';
 sum | max | min | avg
-----+-----+-----+-----
133000.00 | 40000.00 | 25000.00 | 33250.000000000000
(1 row)

company1=# select count(Distinct salary) from employee;
 count
-----
      6
(1 row)

company1=# select fname,minit,lname from employee as e where (select count(*)from dependent where ssn=essn)>=2 ;
 fname | minit | lname
-----+-----+-----
 John  | B     | Smith
Franklin | T     | Wong
(2 rows)
```

Contains 5&6:

```
Windows PowerShell
company1=# select dno,count(ssn),avg(salary) from employee group by dno;
 dno | count | avg
-----+-----+-----
 5 | 4 | 33250.000000000000
 1 | 1 | 55000.000000000000
(3 rows)

company1=# select fname,minit,lname from employee where salary>=10000 +(select min(salary) from employee) ;
 fname | minit | lname
-----+-----+-----
 James | E     | Borg
Franklin | T     | Wong
Jennifer | S     | Wallace
Ramesh | K     | Narayan
(4 rows)
```

Contains 7&8:

```
Windows PowerShell
company1=# select fname,minit,lname from employee where dno=(select dno from employee where salary=(select max(salary) from employee));
  fname | minit | lname
-----+-----+-----
James  | E       | Borg
(1 row)

company1=# select dno,count(ssn) from department,employee where dnumber=dno and salary>40000 group by dno;
  dno | count
-----+-----
    4 |     1
    1 |     1
(2 rows)

company1=#
```