

1. A)  $\Pi id, person\_name(\sigma company\_name = "BigBank"(WORKS))$   
 B)  $\Pi id, person\_name(EMPLOYEE \bowtie employee.id = works.id(\sigma company\_name = "BigBank"(WORKS)))$   
 C)  $\Pi id, person\_name, street, city(EMPLOYEE \bowtie employee.id = works.id(\sigma salary > 10000 \wedge company\_name = "BigBank"(WORKS)))$   
 D)  $\Pi (\sigma employee.city = company.city (EMPLOYEE \bowtie employee.id = works.id WORKS \bowtie works.company\_name = company.company\_name (COMPANY)))$

2.

A)  $\Pi id, person\_name(\sigma not(company\_name = "BigBank")(WORKS))$

B)  $\Pi id, person\_name(\sigma salary \geq avg(salary)(WORKS))$

3. insert into INSTRUCTOR values ( "20bd03035", "Yernar", "Databases1", "66666");  
 delete from DEPARTMENT where dept\_name = "Calculus";

4. Employee db: person\_name // if they is id attribute in tables then -> Employee db: employee.id

Works db: person\_name

Works db: works.id

Company db: company\_name

Company db: company.id