

1. Done by: Adesh Dias
 - a. $\Pi ID, person_name (\sigma_{company_name = "BigBank"}(works))$
 - b. $\Pi ID, person_name, city (employee \bowtie (\sigma_{company_name = "BigBank"}(works)))$
 - c. $\Pi ID, person_name, street, city (\sigma_{(company_name = "BigBank" \wedge salary > 10000)}(works \bowtie employee))$
 - d. $\Pi ID, person_name (employee \bowtie works \bowtie company)$

2.
 - e. $\Pi ID, person_name (\sigma_{company_name \neq "BigBank"}(works))$
 - f. $\Pi person_name (works) - (\Pi works.person_name (works \bowtie (works.salary \geq works2.salary) \rho works2(works)))$

3.

Inserting a tuple: (23455, Jordan, Marketing, 45000) into the instructor table, where the department table does not have the department Marketing, would violate the foreign key constraint.

Deleting the tuple: (Physics, Watson, 75000) from the department table, where at least one student or instructor tuple has deptname as Physics, would violate the foreign key constraint

4. ID

