Ques 4 Relation are there :-

employ(person_name, street, city);
works (person_name, company_name, salary);
company (company_name, city);
manages (person_name, manager name);

Query 1:- Name of all employee who work for FBC.
2:- Find name & city of residence of all employees who work for FBC.
3:- Find name street, city of all employee who work for FBC & earn more than 10000.
4:- Find name of employee who live in same city as the company for which they work.
5:- Find name of all employee who live in the same city & street as do their manager.
6:- Find name of employee who do not work for FBC.
7:- Find name of all employee who earn more than every employee of SBC.
8:- Assume the companies may be located in several cities. Find all companies located in every city in which SBC is located.

① $\Pi_{person\_name}(\sigma_{company\_name = 'FBC'}(works))$

② $\Pi_{person\_name, city}(employee \bowtie (\sigma_{company\_name = 'FBC'}(works)))$

③ $\Pi_{person\_name, city, street}(\sigma_{(company\_name = 'FBC' \wedge salary > 10000)}(works \bowtie employee))$

④ $\Pi_{person\_name}(employee \bowtie works \bowtie company)$

⑤ $\Pi_{person\_name}(employee \bowtie manages) \bowtie (manager\_name = employee2.person\_name \wedge employee.street = employee2.street \wedge employee.city = employee2.city)(\rho_{employee2}(employee))$

⑥ $\Pi_{person\_name}(\sigma_{company\_name \neq 'FBC'}(works))$

⑦ $\Pi_{person\_name}(works) - (\Pi_{works.person\_name}(works \bowtie (works.salary \leq works2.salary \wedge works2.company\_name = 'SBC')\rho_{works2}(works)))$

⑧ $\Pi_{company\_name}(company \div (\Pi_{city}(\sigma_{company\_name = 'SBC'}(company))))$