```
1)
\bigcap_{\text{person\_name,id}} (\sigma_{\text{company\_name='BigBank'}}(\text{works} \bowtie \text{employee} \bowtie \text{company}))
\Pi_{person\_name,id,city}(\sigma_{company\_name='BigBank'(works} \bowtie employee \bowtie company))
Πid,person_name,street,address,city(Ocompany_name='BigBank v salary>=$1000 (works ⋈ employee ⋈ company)
\Pi_{id,person\_name,id}(\sigma employee.city=company.city(works \bowtie employee \bowtie company))
2)
\bigcap_{\text{person\_name,id}} (\sigma_{\text{company\_name}} \neg \text{`BigBank'(works} \bowtie \text{employee} \bowtie \text{company}) )
\Pi_{person\_name,id(works} \bowtie employee \bowtie company) - \sigma a.salary>b.salary(company\_name))
3)
Insert tuple: (3, Beks, Kazakh, 42500) you cannot delete where the
department does not have "Kazakh" department
Delete a tuple: (Russian, Beks, 42500) you cannot delete where at least one
has a dept name as Russian
they would violate foreign key constraint
4)
{id,person_name}
```