

① Employee who live in Miami

$\Pi_{\text{person_name}} (\sigma_{\text{city} = \text{'Miami'}} (\text{employee}))$

② Employee with salary > 100,000

$\Pi_{\text{person_name}} (\sigma_{\text{salary} > 100000} (\text{employee} \bowtie \text{works}))$

③ Employee live in Miami and salary > 100,000

$\Pi_{\text{person_name}} (\sigma_{\text{city} = \text{'Miami'} \wedge \text{salary} > 100000} (\text{employee} \bowtie \text{works}))$

④ $\Pi_{\text{ID}, \text{person_name}} (\text{employee}) - \Pi_{\text{ID}, \text{person_name}} (\text{employee} \bowtie \text{employee.ID} = \text{works.ID} (\sigma_{\text{company_name} = \text{'BigBank'}} (\text{works})))$