

CSC343 Problem Set 2

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1. Rules 1, 5, 6 needs to be enforced
2. $\Pi_{\text{name}}(\text{Department})$
3. $\Pi_{\text{name}, \text{eid}}(\sigma_{\text{salary} > 55} \text{Empolyee})$
4. $\Pi_{\text{name}, \text{eid}}(\text{Empolyee} \bowtie \text{Sales})$
5. $\Pi_{\text{name}, \text{salary}}(\text{Empolyee} \bowtie_{\text{eid} = \text{manager}} \text{Manager})$
6. $\Pi_{\text{name}, \text{eid}, \text{salary}}(\sigma_{\text{dname} = \text{"Widgets"}}(\text{Empolyee} \bowtie_{\text{dept} = \text{did}} (\rho_{\text{name} = \text{dname}} \text{Department})))$
7. $\Pi_{\text{name}, \text{salary}}((\sigma_{\text{amount} > 50}(\text{Sales})) \bowtie_{\text{eid} = \text{junior}} \text{Manager}) \bowtie \text{Empolyee}))$
8. $\Pi_{\text{eid}}((\Pi_{\text{eid}}(\sigma_{\text{amoint} > 90} \text{Sales}) - \Pi_{\text{eid}}(\sigma_{\text{amoint} > 100} \text{Sales})) \bowtie \text{Empolyee})$