

Ethan Dunham

Assignment 3

CS 340

7/31/17

1. $\Pi(\text{make_name}, \text{model_name})(\sigma(\text{first_production_year}=1976)((\text{Vehicle} \bowtie_{(\text{fk_make_id}=\text{make_id})} \text{Make}) \bowtie_{(\text{fk_model_id}=\text{model_id})} \text{Model}))$
2. $\Pi(\text{make_name}, \text{model_name})(\sigma(\text{name}=\text{"Blue"})(((\text{Vehicle} \bowtie_{(\text{fk_make_id}=\text{make_id})} \text{Make}) \bowtie_{(\text{fk_model_id}=\text{model_id})} \text{Model}) \bowtie_{(\text{vehicle_id}=\text{fk_vehicle_id})} \text{Inventory}) \bowtie_{(\text{fk_color_id}=\text{color_id})} \text{Color}))$
3. $\Pi(\text{make_name}, \text{model_name}, \text{amount})(\sigma(\text{type}=\text{"dealer"})(((\text{Vehicle} \bowtie_{(\text{fk_make_id}=\text{make_id})} \text{Make}) \bowtie_{(\text{fk_model_id}=\text{model_id})} \text{Model}) \bowtie_{(\text{vehicle_id}=\text{fk_vehicle_id})} \text{Vehicle_Incentive}) \bowtie_{(\text{fk_incentive_id}=\text{incentive_id})} \text{Incentive}))$
4. $\Pi(\text{id}, \text{team_name}, \text{city_name})(\sigma(\text{score}=100)((\text{Player} \bowtie_{(\text{team_id}=\text{id})} \text{Team}) \bowtie_{(\text{city_id}=\text{id})} \text{City}))$
5. SELECT Make.make_name, Model.model_name, Incentive.amount FROM Vehicle
INNER JOIN Make ON Vehicle.fk_make_id=make.id
INNER JOIN Model ON Vehicle.fk_model_id=model.id
INNER JOIN Vehicle_Incentive ON Vehicle.fk_vehicle_id=Vehicle_Incentive.id
INNER JOIN Incentive ON Vehicle_Incentive.fk_incentive_id=Incentive.id
WHERE Incentive.type="dealer"