Connor Shields
CS 340
Homework 3

1.

π make_name, model_name (σ first_production_year = '1986' (Model ⋈ Model.model_id = Vehicle.fk_model_id (Make ⋈ Make.make_id = Vehicle.fk_make_id (Vehicle))))

2.

π Model.model_name, Make.make_name (σ Color.name = 'Sky Blue' (Color ⋈ Color.color_id = Inventory.fk_color_id (Inventory ⋈ Inventory.fk_vehicle_id = Vehicle.vehicle_id (Make ⋈ Make.make_id = Vehicle.fk_make_id (Vehicle ⋈ Vehicle.fk_model_id = Model.model_id (Model))))))

3.

π Model.model_name, Make.make_name, Incentive.amount (σ Incentive.type = 'dealer' (Incentive ⋈ Incentive.incentive_id = Vehicle_Incentive.fk_incentive_id (Vehicle_Incentive ⋈ Vehicle_Incentive.fk_vehicle_id = Vehicle.vehicle_id (Make ⋈ Make.make_id = Vehicle.fk_make_id (Vehicle ⋈ Vehicle.fk_model_id = Model.model_id (Model))))))

4.

π Player.id, Team.name, City.name (σ Player.score = 100 (City ⋈ Team.city_id = City.id (Team ⋈ Player.team_id = Team.id (Player))))

5.

SELECT DISTINCT Model.model_name, Make.make_name, Incentive.amount FROM Model
INNER JOIN Vehicle ON Vehicle.fk_model_id = Model.model_id
INNER JOIN Make ON Make.make_id = Vehicle.fk_make_id
INNER JOIN Vehicle_Incentive ON Vehicle_Incentive.fk_vehicle_id = Vehicle.vehicle_id
INNER JOIN Incentive ON Incentive.incentive_id = Vehicle_Incentive.fk_incentive_id
WHERE Incentive.type = 'dealer'