Relational Algebra Assignment

- 1. π Model.model_name, Make.make_name (σ Vehicle.year ≥ '1987' (Model ⋈ Model.model_id = Vehicle.fk model id Vehicle) ⋈ Make.make id = Vehicle.fk make id Make)
- 2. π Model.model_name, Make.make_name (((σ Color.name = 'Sky Blue' (Color ⋈ Color.color_id = Inventory.fk_color_id Inventory) ⋈ Vehicle.vehicle_id = Inventory.fk_vehicle_id Vehicle) ⋈ Make.make_id = Vehicle.fk_make_id Make) ⋈ Model.model id = Vehicle.fk 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.vehicle_id = Vehicle_Incentive.fk_vehicle_id Vehicle) ⋈ Inventory.fk_vehicle_id = Vehicle.vehicle_id Inventory) ⋈ Make.make_id = Vehicle.fk_make_id Make) ⋈ Model.model_id = Vehicle.fk_model_id Model)
- 4. π Player.id, Team.name, City.name (σ Player.score = 100 (Player ⋈ Player.team_id = Team.id Team) ⋈ Team.city_id = City.id CITY)
- 5. SELECT ma.make_name, mo.model_name, Inc.incentive_amount FROM Incentive INNER JOIN Vehicle_incentive vi ON inc.incentive_id = vi.fk_incentive_id INNER JOIN Vehicle ve ON ve.vehicle_id = vi.fk_vehicle_id INNER JOIN inventory in ON in.fk_vehicle_id = ve.vehicle_id INNER JOIN Make ma ON ma.make_id = ve.fk_make_id INNER JOIN Model mo ON mo.model_id = ve.fk_model_id WHERE inc.type = 'dealer'