

Relational Schema Diagram

User = (Username, Password, FirstName, LastName)

Employee = (Username [fk_employee_user], Email)

fk_employee_user: Username → User.Username, Username is non-null

Manager = (Username [fk_manager_user])

fk_manager_user: Username → Employee.Username, Username is non-null

Admin = (Username [fk_admin_employee])

fk_admin_employee: Username → Employee.Username, Username is non-null

Building = (Name, Description)

Tag = (Name, BuildingName [fk_tag_building])

fk_tag_building: Name → Building.Name, Name is non-null

Station = (Name, Capacity, Sponsor [fk_station_building])

fk_station_building: Sponsor → Building.Name, Sponsor is non-null

Customer = (Username [fk_customer_user], Balance, LocatedAt [fk_customer_station])

fk_customer_user: Username → User.Username, Username is non-null

fk_customer_station: LocatedAt → Station.Name

FoodTruck = (Name, Manage (Manager) [fk_foodtruck_manager], Host [fk_foodtruck_station])

fk_foodtruck_manager: Manage → Manager.Username, Manage is non-null

fk_foodtruck_station: Host → Station.Name, Host is non-null

Staff = (Username [fk_staff_employee], WorksAt [fk_staff_foodtruck])

fk_staff_employee: Username → Employee.Username, Username is non-null

fk_staff_foodtruck: WorksAt → FoodTruck.Name

Food = (Name)

MenuItem = (FoodName[fk_menuitem_food], FoodTruck [fk_menuitem_foodtruck], Price)

fk_menuitem_food: FoodName -> Food.Name, FoodName is non-null

fk_menuitem_foodtruck: FoodTruck -> FoodTruck.Name, FoodTruck is non-null

Orders = (OrderID, CustomerUsername [fk_order_customer], Date)

fk_order_customer: CustomerUsername -> Customer.Username, CustomerUsername is non-null

OrderContains = (OrderID [fk_ordercontains_order], FoodName [fk_ordercontains_food], FoodTruckName[fk_ordercontains_foodtruck], PurchaseQuantity)

fk_ordercontains_order: OrderID -> Orders.OrderID, OrderID is non-null

fk_ordercontains_food: FoodName -> Food.Name, FoodName is non-null

fk_ordercontains_foodtruck: FoodTruckName -> FoodTruck.Name, FoodTruckName is non-null