

Tutorial 5 Solutions

Exercise 1 solution

- client(id_client, First_Name, Last_Name, Middle_Name, Address)
- client_email(id_client, email)

Exercise 2 solution

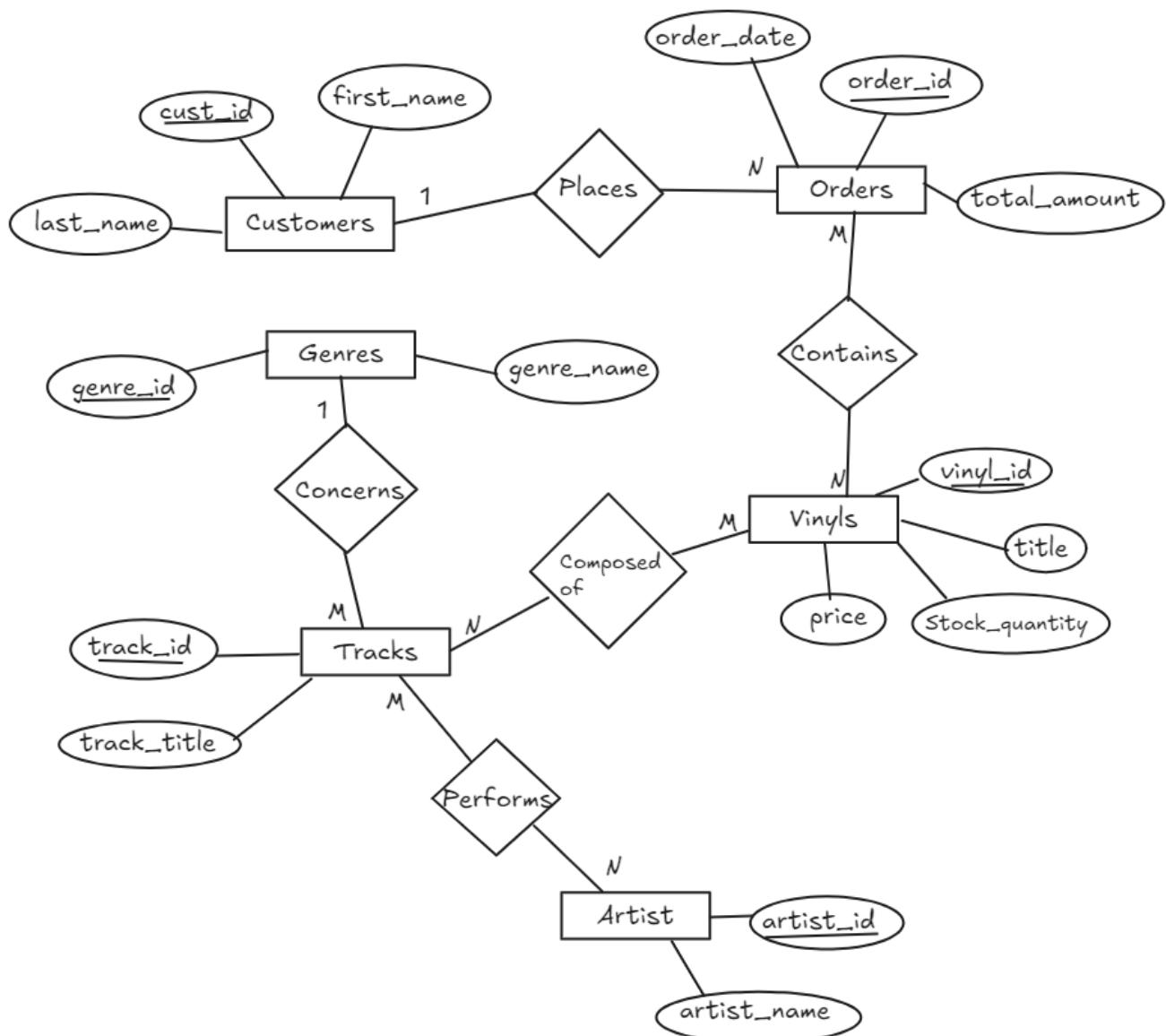
Student(id_student, first_name, last_name)

Course(code, Title, num_credits, id_prof)

Professor(id_prof, first_name, last_name, main_office_number, email)

student_course(id_student, code)

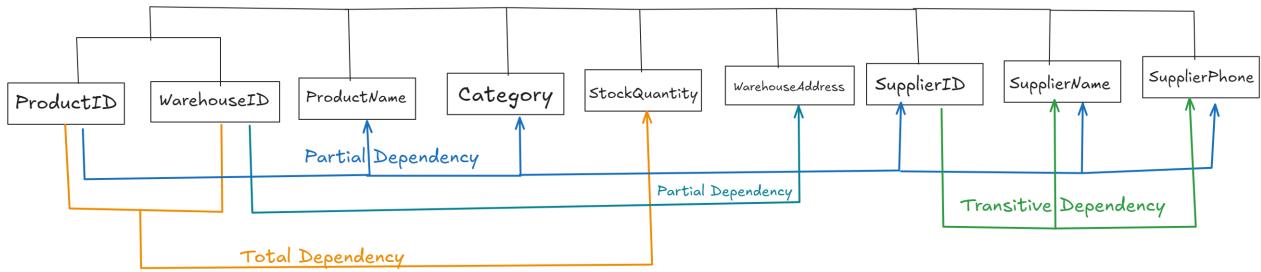
Exercise 3 solution



Exercise 4 solution

- supposing that each one product (ProductID) can have one supplier (SupplierID)

1. The Dependency Diagram:



2. The 3NF

- The relation is already in 1NF
- The 2NF of the relation:

Inventory_Stock(Product_id, WarehouseID, StockQuantity)

Product(ProductID, ProductName, Category, SupplierID, SupplierName, SupplierPhone)

Warehouse(WarehouseID, WarehouseAddress)

- The 3NF of the relation:

Inventory_Stock(Product_id, WarehouseID, StockQuantity)

Product(ProductID, ProductName, Category, SupplierID)

Warehouse(WarehouseID, WarehouseAddress)

Supplier(SupplierID, SupplierName, SupplierPhone)