***Text description of entities:***

1. **User entity attributes:**

ID (Primary Key); Name; Surname

**Connections:**

* Buyer\_User: 0 to 1 (Connects with the User entity, indicating that a user can have only 1 buyer account associated with with user.)
* Seller\_User: 0 to 1 (Connects with the User entity, indicating that a user can have only 1 seller account associated with with user.)

1. **Buyer entity attributes:**

User\_ID (Primary Key, Foreign Key); Address\_ID (Foreign Key)

**Connections:**

* Buyer\_User: 0 to 1 (Connects with the User entity, indicating that a user can have only 1 buyer account associated with with user.)
* Buyer\_Address: 0 to many (Connects with the Address entity, indicating that a buyer can have multiple addresses.)

1. **Seller entity attributes:**

User\_ID (Primary Key, Foreign Key)

**Connections:**

* Seller\_User: 0 to 1 (Connects with the User entity, indicating that a user can have only 1 seller account associated with with user.)

1. **Address entity attributes:**

ID (Primary Key); Street; House\_number; Post\_code; Flat\_number (Nullable)

**Connections:**

* Buyer\_Address: 0 to many (Connects with the Buyer entity, indicating that an address can be associated with multiple buyers.)

1. **Product entity attributes:**

ID (Primary Key); Name; Description; Price; Seller\_User\_ID (Foreign Key)

**Connections:**

* Product\_Seller: 0 to many (Connects with the Seller entity, indicating that a product is associated with a seller.)
* Product\_Category: 1 to many (Connects with the Category entity, indicating that a product can belong to multiple categories.)

1. **Category entity attributes:**

ID (Primary Key); Name

**Connections:**

* Product\_Category: 1 to many (Connects with the Product entity, indicating that a category can have multiple products.)

1. **Order entity attributes:**

ID (Primary Key); Buyer\_User\_ID (Foreign Key)

**Connections:**

* Order\_Buyer: 1 to many (Connects with the Buyer entity, indicating that an order is associated with a buyer.)
* OrderProduct\_Order: 1 to many (Connects with the OrderProduct entity, indicating that an order can have multiple order products.)

1. **Review entity attributes:**

ID (Primary Key); Text; Order\_ID (Foreign Key); Rating

**Connections:**

Review\_Order: 0 to 1 (Connects with the Order entity, indicating that a review can be associated with an order.)

1. **OrderProduct entity attributes:**

* OrderProduct\_ID (Primary Key); Order\_ID (Foreign Key); Product\_ID (Foreign Key); Quantity

**Connections:**

* OrderProduct\_Order: 1 to many (Connects with the Order entity, indicating that an order product is associated with an order.)
* OrderProduct\_Product: 1 to many (Connects with the Product entity, indicating that an order product is associated with a product.)
* OrderProduct\_Order and OrderProduct\_Product gives us together many to many connection and makes it joining table.

***Functionalities:***

* Show the top-buyers of year.
* What is the average rating of products in a specific category.
* Show which buyers have the same address.
* List all products of chosen seller.
* Show how many products have been sold for previous month.