Department stores need to analyze their customer, because of that the system needs to store the customer data buying behavior. So, department stores need to collect customer data, transaction data, and also the product data.

Task

**NB**:

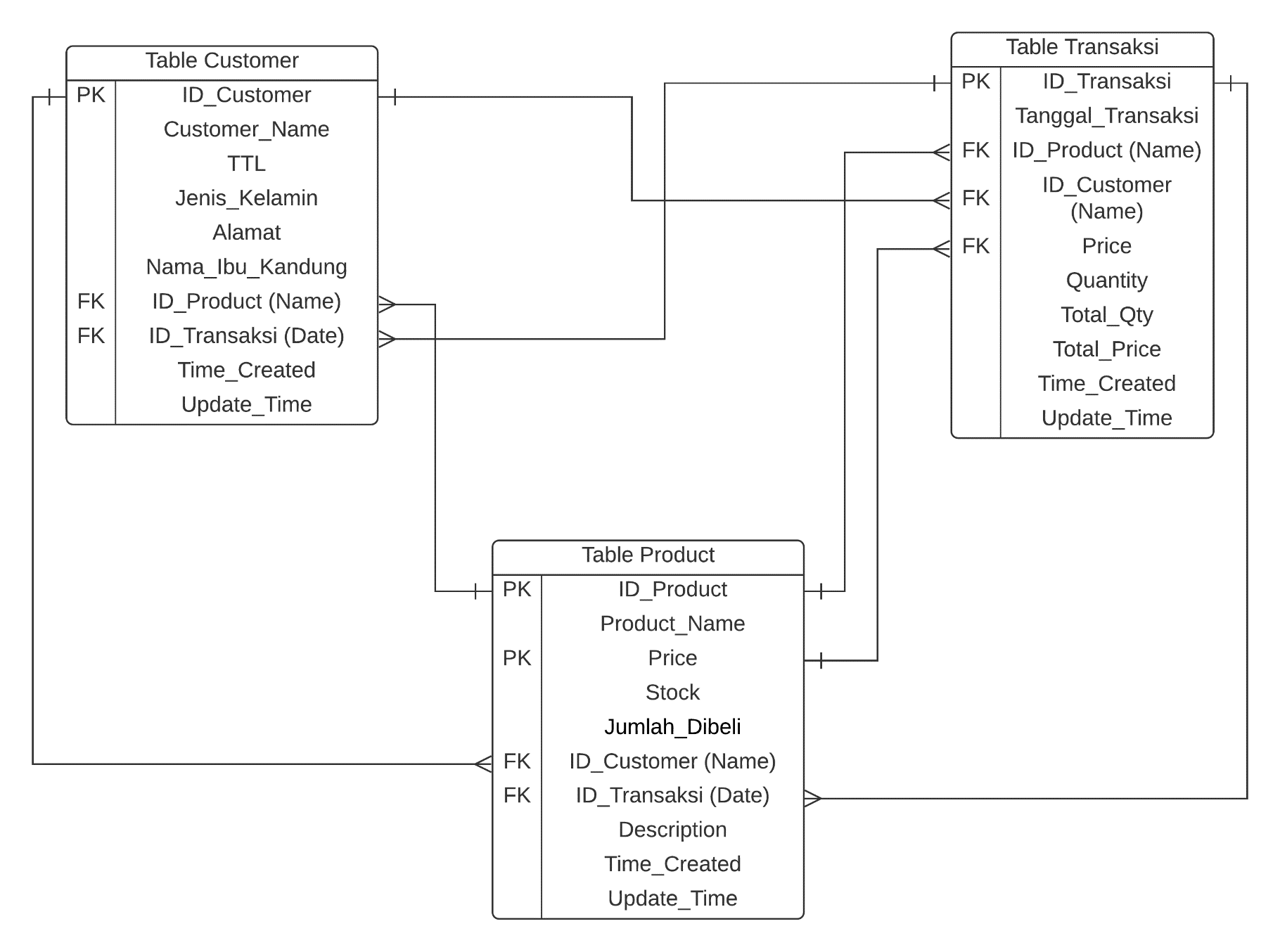
Pada ketiga table terdapat column/field **Time\_Created** and **Update\_Time**. Dan pada Table **Transaksi** terdapat field **Tanggal\_Transaksi**. Semua Field tersebut menggunakan **CURRENT\_TIMESTAMP** data type with “**on update**” turned off. Khusus untuk **Update\_Time**, fitur “**on update**” dinyalakan.

1. Create ERD for the flow above.

2. Create query to get best seller product for male and female.

3. Create query to get customer that spends the most money.

4. Create query to show number of transactions for every 2 hours.



Gambar 1 ERD (Entity Relation Diagram)

No. 2 🡪 create Query to get best seller product for male and female.

**SELECT Product.Product\_Name FROM Product, Customer WHERE Product.Jumlah\_Dibeli = max(Product.Jumlah\_Dibeli) AND Product.ID\_Customer = Customer.ID\_Customer AND Product.ID\_Product = Customer.ID\_Product AND Customer.Jenis\_Kelamin = “Laki-Laki”;** 🡪 Query ini untuk mendapatkan best seller product for male.

**SELECT Product.Product\_Name FROM Product, Customer WHERE Product.Jumlah\_Dibeli = max(Product.Jumlah\_Dibeli) AND Product.ID\_Customer = Customer.ID\_Customer AND Product.ID\_Product = Customer.ID\_Product AND Customer.Jenis\_Kelamin = “Perempuan”;** 🡪 Query ini untuk mendapatkan best seller product for female.

No. 4 🡪 Create query to show number of transactions for every 2 hours.

**COUNT( SELECT ID\_Transaksi FROM Transaksi WHERE Tanggal\_Transaksi = (CURRENT\_TIMESTAMP – 02.00.00) until CURRENT\_TIMESTAMP AND Time\_Created = (CURRENT\_TIMESTAMP – 02.00.00) until CURRENT\_TIMESTAMP; );**

No.3 🡪 Create query to get customer that spends the most money

**SELECT Customer.Customer\_Name FROM Customer, Transaksi WHERE Transaksi.ID\_Customer = Customer.ID\_Customer AND Transaksi.ID\_Transaksi = Customer.ID\_Transaksi AND Transaksi.Total\_Price = max(Transaksi.Total\_Price) AND count(Transaksi.Customer\_ID AND max(Transaksi.Total\_Price));**