Course work

“Pet accessories and toys store”

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# MODEL DESCRIPTION

**LOGICAL SCHEME**

**product:** contains data about products which are selled in the store.

**roduct\_category:** contains categories of products.

**pet\_types:** contains pet types of products.

**bank\_accounts:** contains bank accounts info of customers, suppliers and the store.

**customer:** contains data about customers.

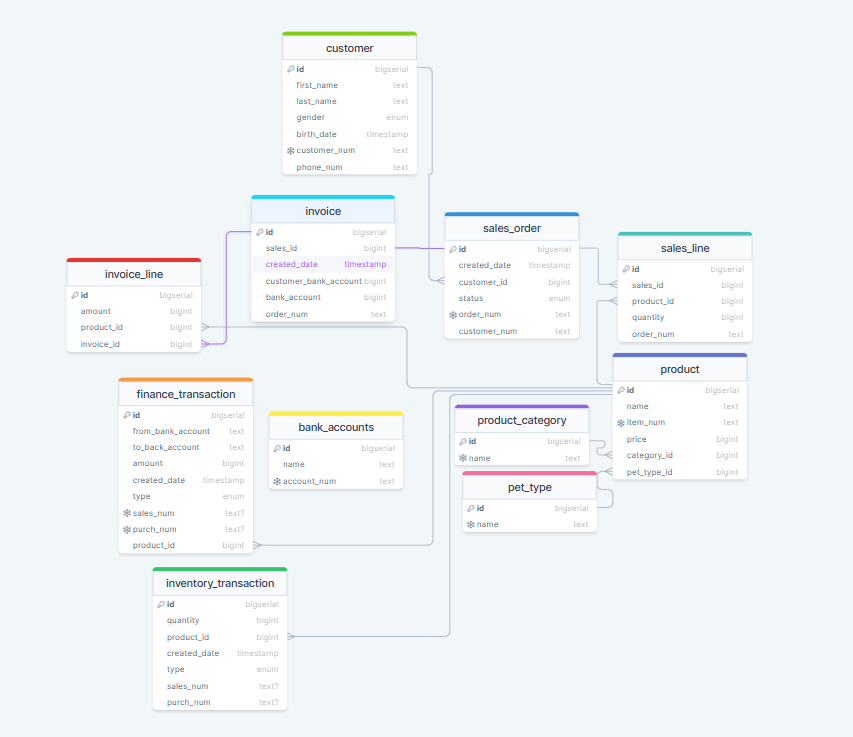
**sales\_order:** contains data of orders.  
**sales\_line:** contains data of products selected in order.

**invoice:** contains data of payments for orders.

**invoice\_line**: contains invoice data for each product of the order.

**finance\_transaction**: contains data of all financial transactions made by store.

**inventory\_transaction:** contains data of all products quantity changes in storage.  
  
**Create script is stored in courseWorkDBScript.sql  
Functions for main actions are stored in func.sql**

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# 2.ETL TO DB DESCRIPTION

1. **DATA LOADING PROCESS**
2. DataSets are stored in \*.csv files:   
   products.csv contains a dataset to create product, categories and pet\_types data.

sales.csv contains a dataset of sales made in the store.

purchase.csv contains a dataset of the store purchasing gods for future retailing.

customers.csv contains a dataset of customers data

b) To load data from .csv files rerunable python scripts are used: products.py, sales.py, purchase.py, customers.py

c) Recommended order of execution: products.py -> customers.py -> purchase.py -> sales.py

Script does not rewrite the data which already exists in db.

# 3. DATA WAREHOUSE

Tables in DWH: product\_dim, product\_category\_dim, pet\_type\_dim, customers\_dim, bank\_accounts\_dim, fact\_sales, fact\_bank\_balance, fact\_product\_sales.

Create script is stored in file DWHTablesScript.sql.

# 4. ETL TO DWH DESCRIPTION

**1.** **DATA LOADING PROCESS**

**To load data into DWH stored procedure is used. Script : procedure.sql.(Rerunable)**

# 5. Power Bi DESCRIPTION

**course\_work.pbix**