**Lab 06**

**21k-3881**

**Task Example:**

CREATE TABLE Book (

BookId NUMBER NOT NULL,

Title VARCHAR2 (50),

Author\_First\_name VARCHAR2 (25) NOT NULL,

Author\_Last\_Name VARCHAR2 (25) NOT NULL ,

Rating INTEGER

) ;

ALTER TABLE Book ADD CONSTRAINT Book\_PK PRIMARY KEY ( BookId ) ;

CREATE TABLE Patrons (

PatronId NUMBER NOT NULL ,

Last\_name VARCHAR2 (25) NOT NULL,

First\_name VARCHAR2 (25) NOT NULL,

Street\_address VARCHAR2 30,

City VARCHAR2 20,

State VARCHAR2 (2) ,

Zip NUMBER ,

Location VARCHAR2 20

) ;

ALTER TABLE Patrons ADD CONSTRAINT Patrons\_PK PRIMARY KEY ( PatronId ) ;

CREATE TABLE Transactions (

TransactionID NUMBER NOT NULL ,

BookID NUMBER NOT NULL ,

patronID NUMBER NOT NULL ,

transactionDate DATE NOT NULL ,

Transaction\_Type CHAR (50 CHAR) NOT NULL ,

Patrons\_PatronId NUMBER NOT NULL ,

Book\_BookId NUMBER NOT NULL

) ;

ALTER TABLE Transactions ADD CONSTRAINT Transactions\_PK PRIMARY KEY (

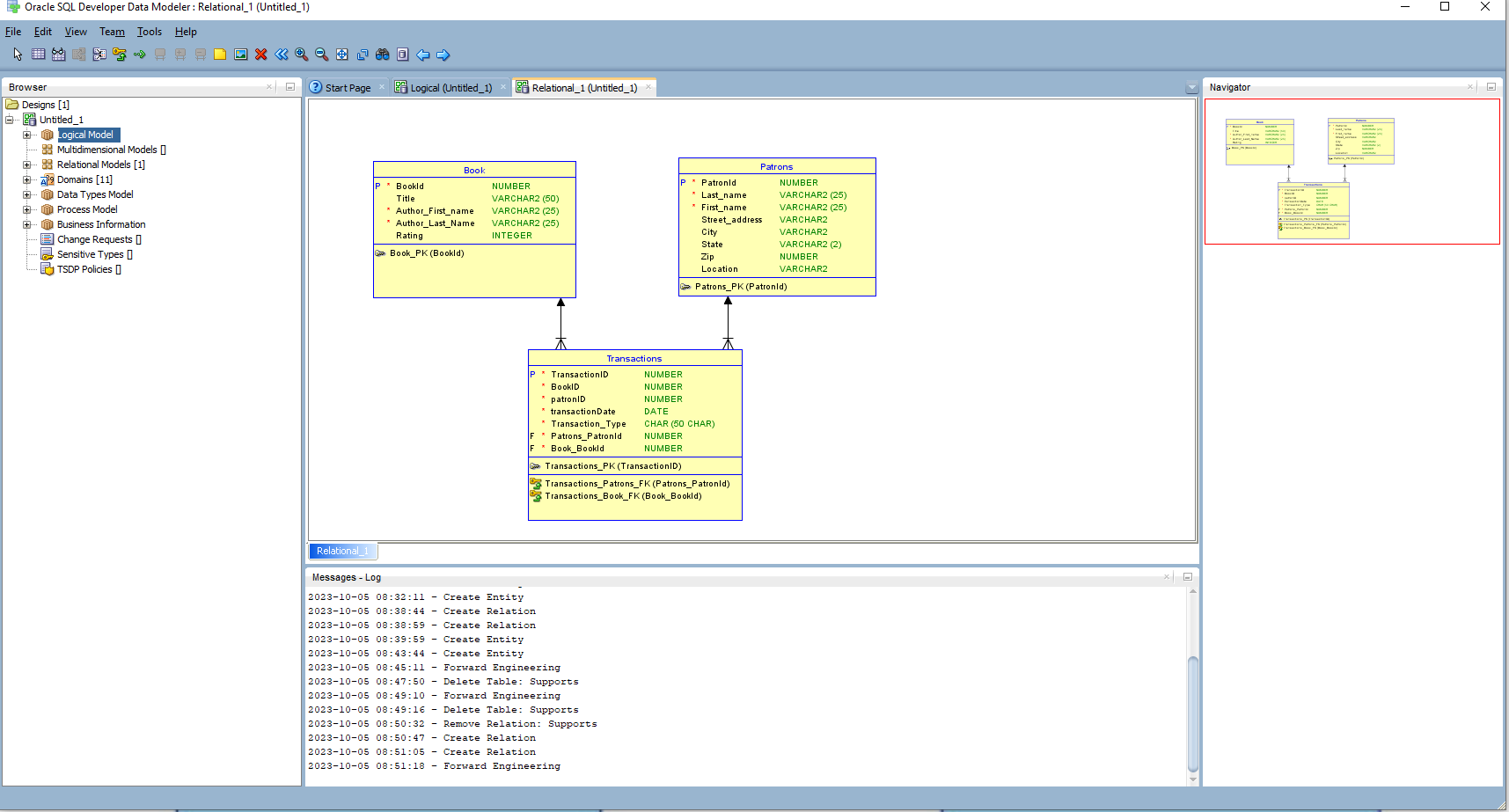
TransactionID ) ;

ALTER TABLE Transactions ADD CONSTRAINT Transactions\_Book\_FK FOREIGN KEY (

Book\_BookId ) REFERENCES Book ( BookId ) ;

ALTER TABLE Transactions ADD CONSTRAINT Transactions\_Patrons\_FK FOREIGN KEY (

Patrons\_PatronId ) REFERENCES Patrons ( PatronId ) ;



**Task 01:**

CREATE TABLE Customers (

Customer\_ID NUMBER NOT NULL ,

Name VARCHAR2 (25) NOT NULL ,

Product\_name VARCHAR2 (50) NOT NULL ,

Quantity INTEGER NOT NULL ,

Address VARCHAR2 (50) NOT NULL ,

Employees\_EmployeeID NUMBER NOT NULL

) ;

ALTER TABLE Customers ADD CONSTRAINT Customers\_PK PRIMARY KEY ( Customer\_ID ) ;

CREATE TABLE Employees (

EmployeeID NUMBER NOT NULL ,

First\_Name VARCHAR2 (25) NOT NULL ,

Last\_Name VARCHAR2 (25) NOT NULL ,

Address VARCHAR2 (50) NOT NULL

) ;

ALTER TABLE Employees ADD CONSTRAINT Employees\_PK PRIMARY KEY ( EmployeeID ) ;

CREATE TABLE Orders (

Order\_Number NUMBER NOT NULL ,

Quantity NUMBER ,

Shipped\_date DATE ,

Recieved\_Date DATE ,

Customers\_Customer\_ID NUMBER NOT NULL

) ;

ALTER TABLE Orders ADD CONSTRAINT Orders\_PK PRIMARY KEY ( Order\_Number )

CREATE TABLE Products (

Product\_ID NUMBER NOT NULL ,

Name VARCHAR2 (25) NOT NULL ,

Price NUMBER NOT NULL ,

Stock NUMBER NOT NULL ,

Employees\_EmployeeID NUMBER NOT NULL

) ;

ALTER TABLE Products ADD CONSTRAINT Products\_PK PRIMARY KEY ( Product\_ID ) ;

ALTER TABLE Customers ADD CONSTRAINT Customers\_Employees\_FK FOREIGN KEY (

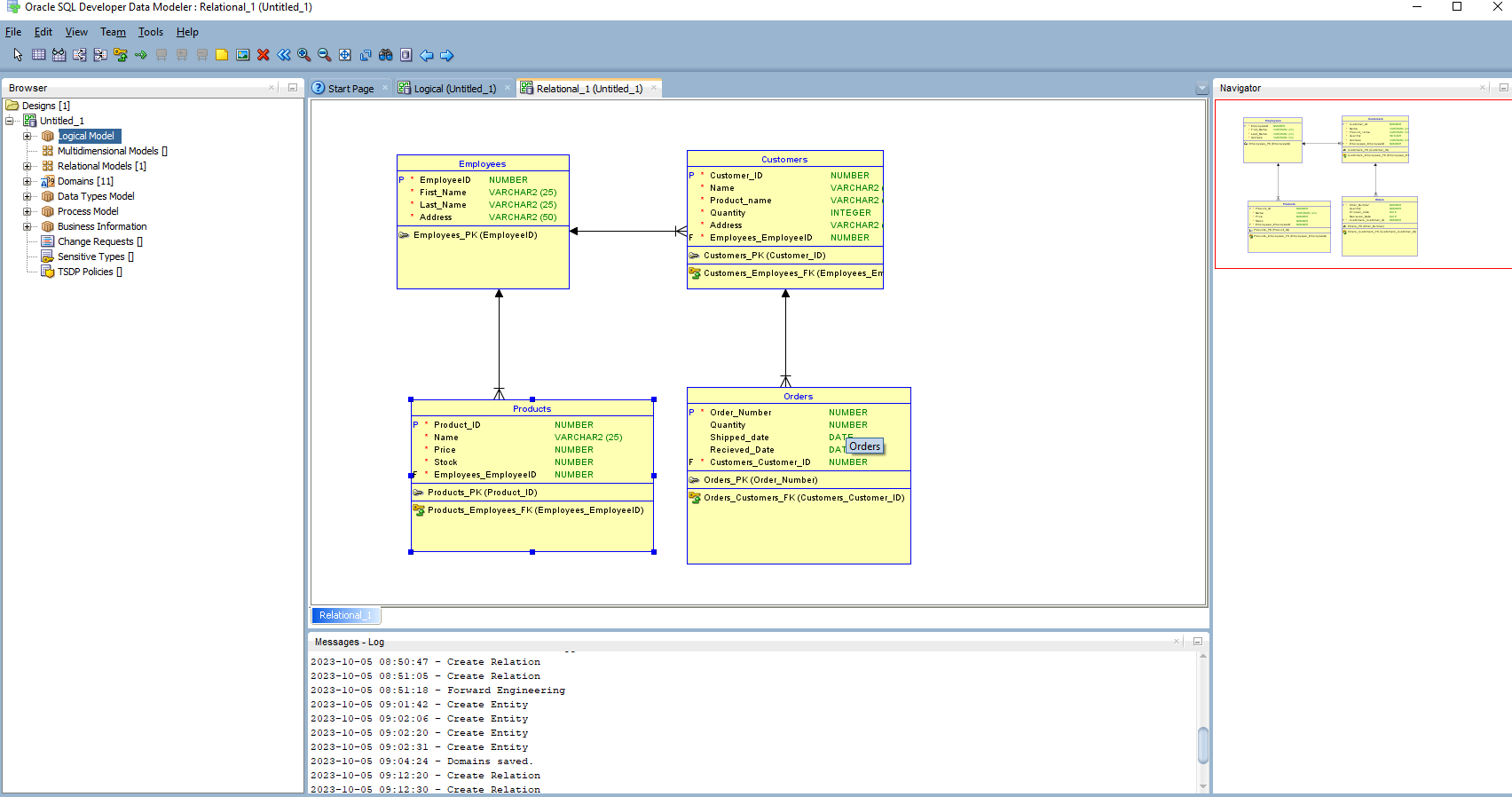
Employees\_EmployeeID ) REFERENCES Employees ( EmployeeID ) ;

ALTER TABLE Orders ADD CONSTRAINT Orders\_Customers\_FK FOREIGN KEY (

Customers\_Customer\_ID ) REFERENCES Customers ( Customer\_ID ) ;

ALTER TABLE Products ADD CONSTRAINT Products\_Employees\_FK FOREIGN KEY (

Employees\_EmployeeID ) REFERENCES Employees ( EmployeeID ) ;

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