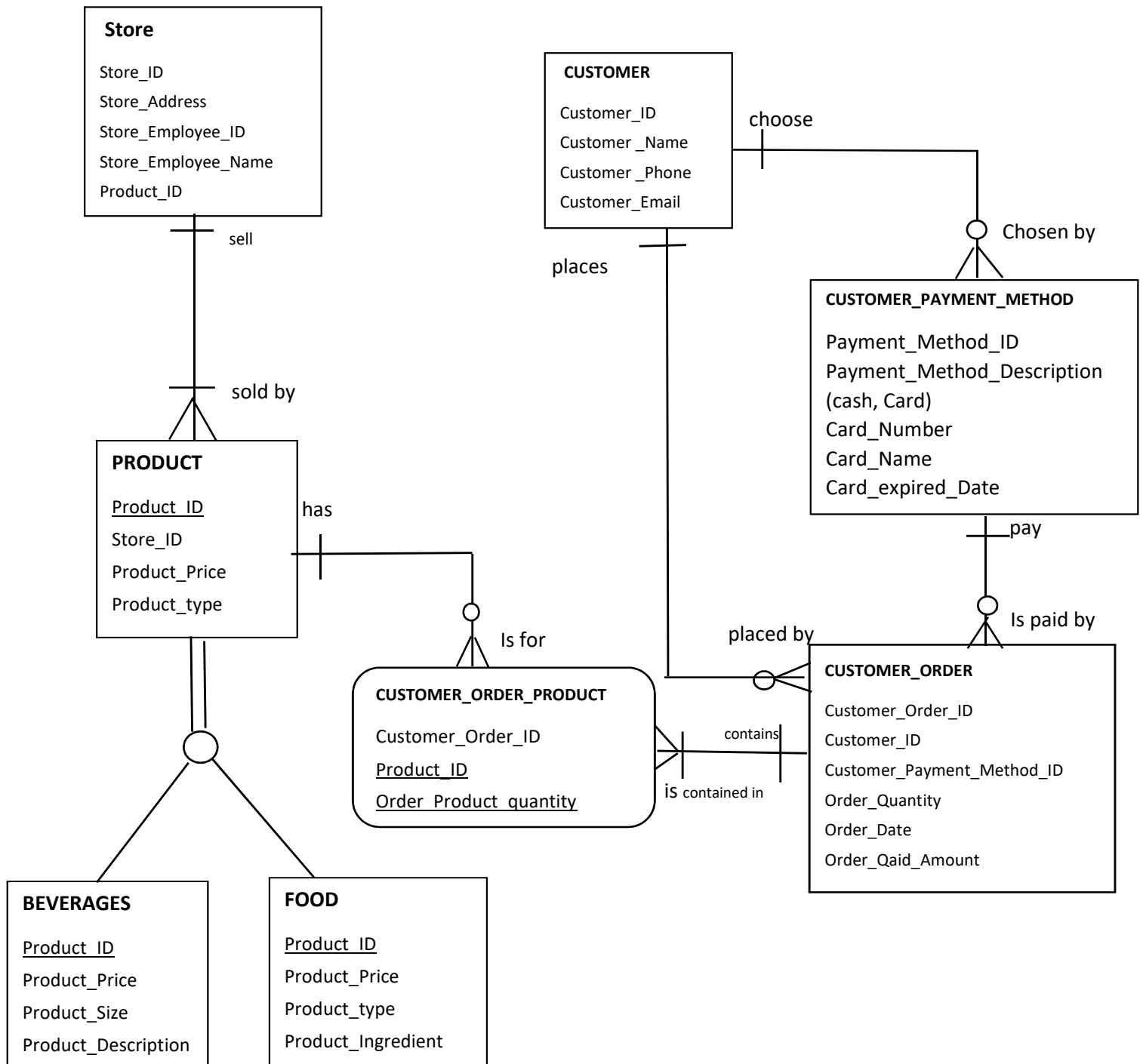ITM6271_project1
Name: Lu Dai (qx8329)

Description:

When customers enter into a Starbucks store, they may order coffee or food to drink or eat, then pay
for it. The following basic database model for explaining this process at a Starbucks store.

DATABASE MODEL WITH SIX ENTITIES FOR STARBUCKS STORE

Store
Store_ID
Store_Address
Store_Employee_ID
Store_Employee_Name
Product_ID

sell

sold by

PRODUCT
Product_ID
Store_ID
Product_Price
Product_type

has

CUSTOMER
Customer_ID
Customer _Name
Customer _Phone
Customer_Email

choose

Chosen by

places

CUSTOMER_PAYMENT_METHOD
Payment_Method_ID
Payment_Method_Description
(cash, Card)
Card_Number
Card_Name
Card_expired_Date

pay

Is for

Is paid by

placed by

CUSTOMER_ORDER_PRODUCT
Customer_Order_ID
Product_ID
Order_Product_quantity

contains

is contained in

CUSTOMER_ORDER
Customer_Order_ID
Customer_ID
Customer_Payment_Method_ID
Order_Quantity
Order_Date
Order_Qaid_Amount

BEVERAGES
Product_ID
Product_Price
Product_Size
Product_Description

FOOD
Product_ID
Product_Price
Product_type
Product_Ingredient

```
CREATE TABLE STORE_T
            (STORE_ID                    NUMBER(11,0)        NOT NULL,
             STORE_ADDRESS               VARCHAR2(30),       NOT NULL
             CITY                        VARCHAR2(20),
             STATE                       VARCHAR2(2),
             POSTAL_CODE                 VARCHAR2(9),
             STORE_EMPLOYEE_ID           NUMBER(11.0)        NOT NULL,
             STORE_EMPLOYEE_NAME         VARCHAR2(30)        NOT NULL,
             PRODUCT_ID                  INTEGER             NOT NULL,
CONSTRAINT STORE_PK PRIMARY KEY (STORE_ID),
CONSTRAINT STORE_FK FOREIGN KEY (PRODUCT_ID) REFERENCES PRODUCT_T(PRODUCT_ID));
```

```
CREATE TABLE PRODUCT_T
            (PRODUCT_ID                  INTEGER             NOT NULL,
             STORE_ID                    NUMBER(11,0)        NOT NULL,
             PRODUCT_PRICE               DECIMAL(6,2)        NOT NULL,
             PRODUCT_TYPE                VARCHAR2,
CONSTRAINT PRODUCT_PK PRIMARY KEY (PRODUCT_ID),
CONSTRAINT PRODUCT_FK FOREIGN KEY (STORE_ID) REFERENCES STORE_T (STORE_ID));
```

```
CREATE TABLE CUSTOMER_ORDER_PRODUCT
            (CUSTOMER_ORDER_ID           NUMBER(11, 0)       NOT NULL,
             PRODUCT_ID                  INTEGER             NOT NULL,
             ORDER_PRODUCT_QUANTITY      INTEGER             NOT NOLL,
CONSTRAINT CUSTOMER_ORDER_PRODUCT_PK PRIMARY KEY (CUSTOMER_ORDER_ID, PRODUCT_ID),
CONSTRAINT CUSTOMER_ORDER_PRODUCT_FK1 FOREIGN KEY (PRODUCT_ID) REFERENCES
PRODUCT_T(PRODUCT_ID);
CONSTRAINT CUSTOMER_ORDER_PRODUCT_FK2 FOREIGN KEY (CUSTOMER_ORDER_ID) REFERENCES
CUSTOMER_ORDER_T(CUSTOMER_ORDER_ID));
```

```
CREATE TABLE CUSTOMER_ORDER

        (CUSTOMER_ORDER_ID              NUMBER(11, 0)         NOT NULL,
         CUSTOMER_ID                    VARCHAR2(25)          NOT NULL,
         CUSTOMER_PAYMENT_METHOD_ID     INTEGER               NOT NULL,
         ORDER_QUANTITY                 INTEGER               NOT NULL,
         ORDER_DATE                     DATE DEFAULT STADATE  NOT NULL,
         ORDER _PAID_AMOUNT             DECIMAL(12,2)         NOT NULL,
CONSTRAINT CUSTOMER_ORDER_PK PRIMARY KEY (CUSTOMER_ORDER_ID),
CONSTRAINT CUSTOMER_ORDER_FK1 FOREIGN KEY (CUSTOMER_ID) REFERENCES CUSTOMER_T
(CUSTOMER_ID),
CONSTRAINT CUSTOMER_ORDER_FK2 FOREIGN KEY(PAYMENT_METHOD_ID) REFERENCES
CUSTOMER_PAYMENT_METHOD_T(PAYMENT_METHOD_ID));
```

```
CREATE TABLE CUSTOMER_T

        (CUSTOMER_ID            NUMBER(11, 0)  NOT NULL,
         CUSTOMER_NAME          VARCHAR2(25)   NOT NULL,
         CUSTOMER_PHONE          INTEGER,
         CUSTOMER_EMAIL         VARCHAR
CONSTRAINT CUSTOMER_PK PRIMARY KEY (CUSTOMER_ID));
```

```
CREATE TABLE CUSTOMER_PAYMENT_METHOD

        (PAYMENT_METHOD_ID              NUMBER(11, 0)      NOT NULL,
         PAYMENT_METHOD_DESCRIPTION     VARCHAR2(25)       NOT NULL,
         CARD_NUMBER                    INTEGER            NOT NULL,
         CARD_NAME                      VARCHAR2(25)       NOT NULL,
         CARD_EXPIRED_DATE               DATETIME           NOT NULL,
CONSTRAINT CUSTOMER_PAYMENT_METHOD_PK PRIMARY KEY (PAYMENT_METHOD_ID));
```