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Database Management and Applications

Project 1

**Entities:**

**Lee Sandwiches Stores:**

* Store ID
* Name of store
* Address
* Zip Code
* Phone
* Fax
* Business hours
* Year open

**Sales:**

* Order ID
* Store ID
* Type of food
* Name
* Quantity
* Selling price
* Sales

**Supplier:**

* Supplier ID
* Company name
* Address
* Phone
* Price

**Purchases:**

* Purchase ID
* Product name
* Price
* Date of purchase
* Discount

**Payment:**

* Store ID
* Credit
* Apple Pay
* Android Pay

**Parking**

* Store ID
* Parking lot
* Type
* Bike
* Hours
* Size

**Model Draw:**

**PURCHASE**

Purchase\_ID

Product\_Name

Price

Date

Discount

**1**

**∞**

**1**

**1**

**1**

**SALES**

Order\_ID

Store\_ID

Food\_Type

Name

Quantity

Selling\_Price

Sales

**∞**

**STORE**

Store\_ID

Store\_Name

Address

Zip\_Code

Phone

Fax

Business\_Hours

Year\_Open

**PURCHASE\_LINE**

Supplier\_ID

Purchase\_ID

Quantity

**SUPPLY\_CHAIN**

Supplier\_ID

Store\_ID

Year\_Contact

**1**

**∞**

**∞**

**SUPPLIER**

Supplier\_ID

Company\_Name

Address

Phone

Price

Is For

**∞**

**1**

Has

**1**

Sold

**∞**

Is Sold By

Is Supplied By

Supplies

**1**

Obtains

Supplies To

Has

Belongs To

Belongs To

**1**

Is Used By

Has

**PARKING**

Parking\_ID

Parking\_Lot

Type

Bike

Hours

Size

**PAYMENT**

Payment\_ID

Credit

Apple\_Pay

Android\_Pay

Accepts

**SQL Statements:**

CREATE TABLE STORE\_T

(STORE\_ID NUMBER(6,0) NOT NULL,

STORE\_NAME VARCHAR2(30) NOT NULL,

ADDRESS VARCHAR2(50),

ZIP\_CODE NUMBER(5,0),

PHONE NUMBER(15,0),

FAX NUMBER(15,0),

BUSINESS\_HOURS VARCHAR2(20),

YEAR\_OPEN NUMBER2(5,0),

CONSTRAINT STORE\_PK PRIMARY KEY (STORE\_ID));

CREATE TABLE SUPPLIER\_T

(SUPPLIER\_ID NUMBER(6,0) NOT NULL,

COMPANY\_NAME VARCHAR2(30) NOT NULL,

ADDRESS VARCHAR2(50),

PHONE NUMBER(15,0),

PRICE VARCHAR2(10),

CONSTRAINT SUPPLIER\_PK PRIMARY KEY (SUPPLIER\_ID));

CREATE TABLE SUPPLY\_CHAIN\_T

(STORE\_ID NUMBER(6,0) NOT NULL,

SUPPLIER\_ID NUMBER(6,0) NOT NULL,

YEAR\_CONTACT NUMBER(5,0),

CONSTRAINT SUPPLY\_CHAIN\_PK PRIMARY KEY (STORE\_ID, SUPPLIER\_ID),

CONSTRAINT SUPPLY\_CHAIN\_FK1 FOREIGN KEY (STORE\_ID) REFERENCES STORE\_T(STORE\_ID),

CONSTRAINT SUPPLY\_CHAIN\_FK2 FOREIGN KEY (SUPPLIER\_ID) REFERENCES SUPPLIER\_T(SUPPLIER\_ID));

CREATE TABLE PURCHASE\_T

(PURCHASE\_ID NUMBER(6,0) NOT NULL,

PRODUCT\_NAME VARCHAR2(30) NOT NULL,

PRICE DECIMAL(6,2),

DATE DATE DEFAULT SYSDATE,

DISCOUNT DECIMAL(6,2),

CONSTRAINT PURCHASE\_PK PRIMARY KEY (PURCHASE\_ID));

CREATE TABLE PURCHASE\_LINE\_T

(SUPPLIER\_ID NUMBER(6,0) NOT NULL,

PURCHASE\_ID NUMBER(6,0) NOT NULL,

QUANTITY NUMBER(11,0),

CONSTRAINT PURCHASE\_LINE\_PK PRIMARY KEY (SUPPLIER\_ID, PURCHASE\_ID),

CONSTRAINT PURCHASE\_LINE\_FK1 FOREIGN KEY (SUPPLIER\_ID) REFERENCES SUPPLIER\_T(SUPPLIER\_ID),

CONSTRAINT PURCHASE\_LINE\_FK2 FOREIGN KEY (PURCHASE\_ID) REFERENCES PURCHASE\_T(PURCHASE\_ID));

CREATE TABLE SALES\_T

(ORDER\_ID NUMBER(6,0) NOT NULL,

STORE\_ID NUMBER(6,0) NOT NULL,

FOOD\_TYPE VARCHAR2(15),

NAME VARCHAR2(15),

QUANTITY NUMBER(11,0),

SELLING\_PRICE DECIMAL(6,2),

SALES DECIMAL(15,2) NOT NULL,

CONSTRAINT ORDER\_PK PRIMARY KEY (ORDER\_ID),

CONSTRAINT ORDER\_FK FOREIGN KEY (STORE\_ID) REFERENCES STORE\_T(STORE\_ID));

CREATE TABLE PAYMENT\_T

(STORE\_ID NUMBER(6,0) NOT NULL,

CREDIT VARCHAR2(15),

APPLE\_PAY VARCHAR2(15),

ANDROID\_PAY VARCHAR2(15),

CONSTRAINT PAYMENT\_PK PRIMARY KEY (STORE\_ID),

CONSTRAINT PAYMENT\_FK FOREIGN KEY (STORE\_ID) REFERENCES STORE\_T(STORE\_ID));

CREATE TABLE PARKING\_T

(STORE\_ID NUMBER(6,0) NOT NULL,

PARKING\_LOT VARCHAR2(15),

TYPE VARCHAR2(15),

BIKE VARCHAR2(15),

HOURS VARCHAR2(15),

SIZE VARCHAR2(15),

CONSTRAINT PARKING\_PK PRIMARY KEY (STORE\_ID),

CONSTRAINT PARKING\_FK FOREIGN KEY (STORE\_ID) REFERENCES STORE\_T(STORE\_ID));