**PARKERS SUITS: E-STORE**

*by Miguel Guzman, Garrett Tice, and Richard Hidajat*

*Team Leader Developer Developer*





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Introduction (Garrett)

Parker Suits database is responsible for maintaining and keeping track of a small tier product line of custom suits that are sought by both individual and business customers. As a database, our Items and Order line Table contain information relevant to a shipping date and a unique order number. As we have both individual and business customers it’s important for us to separate our clientele when processing orders as each have unique attributes. (I.E. an individual customer has an individual rewards No.\*Business Customers do not have rewards).

As a small company with few employees we take the initiative to maintain our employee’s information as a form of security as well as determining sales output/growth and what type of customer was handled by the employee. Our database tracks what type of payment method is provided, (order-date, amount of suits, whether business or individual customer, and personal credentials I.E. name, email, etc.).

A unique database that tracks all the components provides for an efficient business model. From the time a customer places and order to the time it arrives to their residence. Everything is handled by our database. Our users are the individual consumer, business entities, and our employees maintaining our order line as they are updated

Functionality (Garrett)

The functionality for Parker Suits is designed for a user type. An employee/admin accesses the order table or order line table upon a transaction in order to verify the products customer order for accuracy. As an administrative user the functionality serves as way to verify, edit, and perform moderate duties as parker suits catalog is changed by season (I.E. price, product descriptions as well as payment details for bookkeeping). The database functions as a key component of the business tracking all facets from order date until order delivery is complete.

Business Rules

* One customer may or may not place many orders.

One order must be placed by one and only one customer.

* One order must contain one or more item.

One item may or may not be in many orders.

* One employee may or may not process many orders.

One order must be processed by one and only one employee.

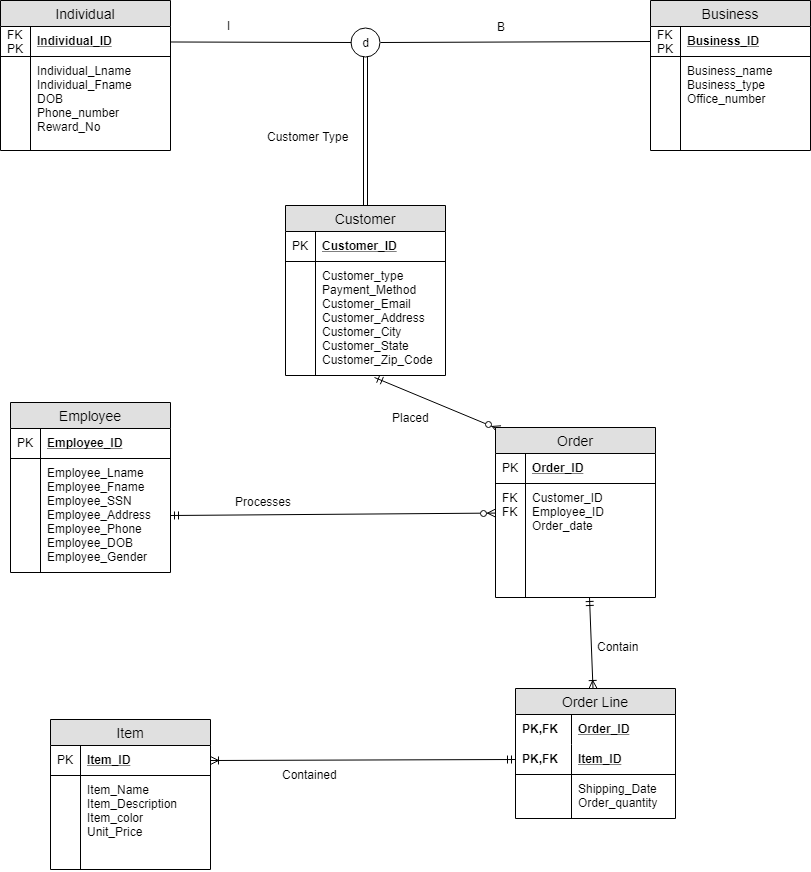
* One customer must be either a business or individual customer.

One business customer or individual customer must be a customer.

Entity Types and Relationship Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Customer | Order | Item | Employee |
| Customer | == | Place | == | == |
| Order | Placed | == | Contain | Processed |
| Item | == | Be | == | == |
| Employee | == | Process | == | == |

ERD Diagram



TABLES & Attributes

**Table Name:** Customer

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Customer\_ID **(PK)** | Customer\_type | Payment\_Method | Customer\_Email | Customer\_Address | Customer\_City | Customer\_State | Customer\_Zip\_Code |

**Table Name:** Business

|  |  |  |  |
| --- | --- | --- | --- |
| Business\_ID **(PK/FK)** | Business\_type | Office\_number | Business\_name |

**Table Name:** Individual

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Individual\_ID **(FK/PK)** | Individual\_Lname | Individual\_Fname | DOB | Phone\_number | Reward\_No |

**Table Name:** Order

|  |  |  |  |
| --- | --- | --- | --- |
| Order\_ID **(PK)** | Employee\_ID **(FK)** | Customer\_ID  **(FK)** | Order\_date |

**Table Name:** Item

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item\_ID **(PK)** | Item\_Name | Item\_Description | Unit\_Price | Item Color |

**Table Name:** Order Line

|  |  |  |  |
| --- | --- | --- | --- |
| Item\_ID **(PK,FK) Composite** | Order\_ID **(PK,FK)**  **Composite** | Order\_quantity | Shipping\_Date |

**Table Name:** Employee

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Employee\_ID **(PK)** | Employee\_Lname | Employee\_Fname | Employee\_SSN | Employee\_Address | Employee\_Phone | Employee\_DOB | Employee\_Gender |

Referential Integrities

Order, Employee\_ID🡪Employee, Employee\_ID

Order, Customer\_ID🡪Customer, Customer\_ID

Order Line, Order\_ID🡪Order, Order\_ID

Order Line, Item\_ID🡪Item, Item\_ID

Business, Business\_ID🡪 Customer, Customer\_ID

Individual, Individual\_ID🡪 Customer, Customer\_ID

Functional Dependency Analysis for Normalization

**TABLE CUSTOMER**

**Customer\_ID** 🡪 Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code **(Full Dependency)**

**TABLE ORDER**

**Order\_ID** 🡪 Employee\_ID, Customer\_ID, Order\_Date **(Full Dependency)**

**TABLE ITEM**

**Item\_ID** 🡪 Item\_Name, Item\_Description, Item\_Color, Unit\_Price **(Full Dependency)**

**TABLE ORDER LINE**

**Order\_ID, Item\_ID** 🡪, Order\_quantity, Shipping\_date **(Full Dependency)**

**TABLE EMPLOYEE**

**Employee\_ID** 🡪 Employee\_Lname, Employee\_Fname, Employee\_SSN, Employee\_Address, Employee\_Phone, Employee\_DOB, Employee\_Gender **(Full Dependency)**

**TABLE BUSINESS**

**Business\_ID** 🡪 Business\_Type, Office\_Number, Business\_Name **(Full Dependency)**

**TABLE INDIVIDUAL**

**Individual\_ID** 🡪 Individual\_LName, Individual\_FName DOB, Phone\_Number, Individual\_Reward\_No **(Full Dependency)**

Normalized Tables

|  |  |  |  |
| --- | --- | --- | --- |
| **Table Name** | **1NF** | **2NF** | **3NF** |
| **Customer** | X | X | X |
| **Order** | X | X | X |
| **Item** | X | X | X |
| **Order Line** | X | X | X |
| **Employee** | X | X | X |
| **Business** | X | X | X |
| **Individual** | X | X | X |

Data Base Creation (DDL)

**--Miguel**

**--Customer Table**

CREATE TABLE Customer\_T

(Customer\_ID NUMBER NOT NULL,

Customer\_type VARCHAR(20),

Payment\_Method VARCHAR(20),

Customer\_Email VARCHAR(40),

Customer\_Address VARCHAR(30),

Customer\_City VARCHAR(20),

Customer\_State VARCHAR(4),

Customer\_Zip\_Code VARCHAR(10),

CONSTRAINT CUSTOMER\_PK PRIMARY KEY (Customer\_ID));

--Miguel

**--Individual** **Table**

CREATE TABLE individual\_T

(Individual\_ID NUMBER NOT NULL,

Individual\_Lname VARCHAR(25),

Individual\_Fname VARCHAR(25),

DOB DATE,

Phone\_number VARCHAR(15) UNIQUE,

Reward\_No VARCHAR(9) UNIQUE,

CONSTRAINT INDIVIDUAL\_PK PRIMARY KEY (individual\_ID),

FOREIGN KEY (Individual\_ID) REFERENCES Customer\_T(Customer\_ID));

--Miguel

**--Business Table**

CREATE TABLE business\_T

(Business\_ID NUMBER NOT NULL,

Business\_name VARCHAR(25),

Business\_type VARCHAR(25),

Office\_number VARCHAR(15),

CONSTRAINT BUSINESS\_PK PRIMARY KEY (Business\_ID),

FOREIGN KEY (Business\_ID) REFERENCES Customer\_t(Customer\_ID));

--Garrett

--**Employee Table**

CREATE TABLE Employee\_T

(Employee\_ID NUMBER NOT NULL,

Employee\_Lname VARCHAR(25),

Employee\_Fname VARCHAR(25),

Employee\_SSN VARCHAR(11) UNIQUE,

Employee\_Address VARCHAR(40),

Employee\_Phone VARCHAR(15) UNIQUE,

Employee\_DOB DATE,

Employee\_gender VARCHAR(8),

CONSTRAINT EMPLOYEE\_PK PRIMARY KEY (Employee\_ID));

-- Richard

--**Item Table**

CREATE TABLE Item\_T

(Item\_ID NUMBER NOT NULL,

Item\_name VARCHAR(25),

Item\_description VARCHAR(50),

Item\_color VARCHAR(10),

Unit\_Price DECIMAL(6,2),

CONSTRAINT ITEM\_PK PRIMARY KEY (Item\_ID));

-- Garret

--**Order Table**

CREATE TABLE Order\_T

(Order\_ID INTEGER NOT NULL,

Customer\_ID NUMBER,

Employee\_ID NUMBER,

Order\_date DATE,

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

CONSTRAINT ORDER\_FK1 FOREIGN KEY (Customer\_ID) REFERENCES Customer\_T(Customer\_ID),

CONSTRAINT ORDER\_FK2 FOREIGN KEY (Employee\_ID) REFERENCES Employee\_T(Employee\_ID));

--Garrett

--**Order Line Table**

CREATE TABLE Order\_Line\_T

(Order\_ID INTEGER NOT NULL,

Item\_ID NUMBER NOT NULL,

Order\_quantity NUMBER CHECK (Order\_quantity > 0),

Shipping\_Date DATE,

CONSTRAINT ORDER\_LINE\_PK PRIMARY KEY (Order\_ID, Item\_ID),

CONSTRAINT ORDER\_LINE\_FK1 FOREIGN KEY (Order\_ID) REFERENCES Order\_T(Order\_ID),

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

Data Base Data (Miguel, Garret, Richard)

**--**Richard

**--CUSTOMER TABLE**

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (101, 'I', 'Visa', 'Oreocookie@firemail.com', '1800 Roller Ave', 'Atlanta', 'GA', '30309');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (102, 'B', 'Mastercard', 'Biscuit@badmail.com', '7512 Country Lane Road #101', 'Topeka', 'KS', '68909');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (103, 'B', 'Paypal', 'Gingerbread@bettermail.com', '1029 Lemon Blvd', 'Anchorage', 'AK', '99514');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (104, 'I', 'Bitcoin', 'Paradise@squirrelmail.com', '1001 History Ln', 'Jackson', 'MI', '49201');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (105, 'B', 'Visa', 'Marmalade@badmail.com', '101 First St.', 'Augusta', 'ME', '04330');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (106, 'I', 'Venmo', 'Ralphsbest@bettermail.com', '1020 State St.', 'New York', 'NY', '10001');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (107, 'B', 'Amex', 'TammyJ@gmail.com', '1453 Chocolate Blvd', 'Orlando', 'FL', '32812');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (108, 'I', 'Apple Pay', 'JM@bettermail.com', '6606 Sand Rd.', 'Dallas', 'TX', '75001');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (109, 'I', 'Discover', 'JJ@gmail.com', '8812 Old Rd.', 'Sacramento', 'CA', '94261');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (110, 'I', 'Android Pay', 'MMlove@bettermail.com', '720 Melon Cove', 'Miami', 'FL', '33234');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (201, 'B', 'Cash', 'TomeJones@gmail.com', '1000 Grand Blvd. #30', 'Nashville', 'TN', '37027');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (202, 'I', 'Check', 'RickyRicardo@gmail.com', '2042 Coconut Ave.', 'Dallas', 'TX', '75001');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (203, 'I', 'Check', 'KoolAid@bettermail.com', '1932 Rock St.', 'Los Angeles', 'CA', '90020');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (204, 'B', 'Credit', 'Harrys@gmail.com', '1203 Eagle Blvd.', 'Los Angeles', 'CA', '90028');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (205, 'I', 'Visa', 'Marias@bettermail.com', '1545 Vine St.', 'Los Angeles', 'CA', '90027');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (206, 'B', 'Cash', 'ASpace@gmail.com', '3030 Figueroa Street', 'Los Angeles', 'CA', '90034');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (207, 'I', 'Check', 'Arthurspad@gmail.com', '9790 Glacier Rd.', 'Baton Rouge', 'LA', '70805');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (208, 'B', 'Check', 'LisSer@gmail.com', '3402 Logic Ln.', 'Austin', 'TX', '78720');

INSERT INTO Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (209, 'B', 'Check', ' Rd@roxon.com', '1000 Imperial Way', ' San Francisco', ' CA', '94123');

**--**Richard

**--INDIVIDUAL TABLE**

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (101, 'Gonzales', 'Matt', '25/FEB/1980', '323-625-7758', '853659');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (202, 'Faith', 'Stella', '05-OCT-1999', '269-589-2186', '582369');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (203, 'Valle', 'Gian', '16-MAY-1996', '568-258-2368', '964236');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (104, 'Uruk', 'Gilgamesh', '01-JAN-2000', '421-432-5332', '112948');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (205, 'Worth', 'Barnaby', '10-MAY-1991', '323-000-2323', '101243');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (106, 'Lauren', 'Ralph', '01-JUNE-1946', '213-002-0918', '712431');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (207, 'Jones', 'Tammy', '03-April-1982', '323-556-0012', '451986');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (108, 'Meat', 'John', '06-May- 1966', '213-435-1024', '561834');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (109, 'Johnson', 'John', '04-Sep-1910', '310-691-7823', '340102');

INSERT INTO INDIVIDUAL\_T (Individual\_ID, Individual\_Lname, Individual\_Fname, DOB, Phone\_number, Reward\_No)

VALUES (110, 'May', 'Mary', '01-DEC-1992', '341-890-9821', '300431');

**--**Richard

--**BUSINESS TABLE**

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (201, 'Barneys Threads', 'Retail', '895-985-2586');

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (102, 'Xyz Clothing', 'Custom Clothing', '323-931-1900');

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (103, 'Second Hand', 'Consignment', '213-100-3201');

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (204, 'Harry Logistics ', 'Moving Company', '323-808-6969');

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (105, 'Marias Shop', 'Consignment', '213-452-1891');

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (206, 'Altons Space', 'Consignment', '323-008-8734');

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (107, 'Arthurs Old Pad', 'Retail', '323-213-4525');

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (208, 'Liz Services', 'Moving Logistics', '323-213-1034');

INSERT INTO Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (209, ' Roxon Designs', ' Designer', ' 323-402-7854');

**--**Garrett

--**EMPLOYEE**

INSERT INTO Employee\_t (Employee\_ID, Employee\_Lname, Employee\_Fname, Employee\_SSN, Employee\_address, Employee\_Phone, Employee\_DOB, Employee\_Gender)

VALUES (1, 'Dough', 'Boy', '101-32-2012', '1200 Glorious Blvd', '323-141-0001', '01/Dec/1981', 'Male');

INSERT INTO Employee\_t (Employee\_ID, Employee\_Lname, Employee\_Fname, Employee\_SSN, Employee\_address, Employee\_Phone, Employee\_DOB, Employee\_Gender)

VALUES (2, 'Jones', 'Richie', '321-22-4021', '1001 Cheap St', '213-301-4213', '02/Mar/1990', 'Male');

INSERT INTO Employee\_t (Employee\_ID, Employee\_Lname, Employee\_Fname, Employee\_SSN, Employee\_address, Employee\_Phone, Employee\_DOB, Employee\_Gender)

VALUES (3, 'Ford', 'Tom', '201-01-3021', '7510 Royal Rd', '310-434-0121', '04/Aug/1970', 'Male');

INSERT INTO Employee\_t (Employee\_ID, Employee\_Lname, Employee\_Fname, Employee\_SSN, Employee\_address, Employee\_Phone, Employee\_DOB, Employee\_Gender)

VALUES (4, 'Harvey', 'Lisa', '401-51-3671', '7548 Royal Rd', '330-454-6721', '04/May/1995', 'Female');

**--**Miguel

--**ITEM TABLE**

INSERT INTO Item\_T (Item\_ID, Item\_name, Item\_description, Item\_color, Unit\_Price)

VALUES (10, 'Kempton Suit', 'Italian Threaded Custom Blazer', 'Black', 399);

INSERT INTO Item\_T (Item\_ID, Item\_name, Item\_description, Item\_color, Unit\_Price)

VALUES (20, 'Broadway Suit', 'Polyester Cotton Jacket', 'Grey', 100);

INSERT INTO Item\_T (Item\_ID, Item\_name, Item\_description, Item\_color, Unit\_Price)

VALUES (30, 'Matte Suit', 'Long Sleeve Collared Button Up', 'White', 75);

INSERT INTO Item\_T (Item\_ID, Item\_name, Item\_description, Item\_color, Unit\_Price)

VALUES (40, 'Razor Tie', 'Full Length Silk Accessory', 'Red', 50);

**--**Garrett

--**ORDER TABLE**

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1001, 101, 1, '10-SEP-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1002, 105, 3, '31-OCT-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1003, 203, 3, '24-SEP-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1004, 106, 4, '03-NOV-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1005, 201, 3, '04-AUG-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1006, 103, 1, '09-NOV-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1007, 209, 2, '15-OCT-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1008, 109, 1, '01-SEP-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1009, 101, 2, '31-OCT-19');

INSERT INTO Order\_T (Order\_ID, Customer\_ID, Employee\_ID, Order\_date)

VALUES (1010, 102, 3, '08-AUG-19');

**--**Miguel

--**ORDER LINE TABLE**

INSERT INTO Order\_Line\_T (order\_ID, Item\_ID, Order\_Quantity, Shipping\_Date)

VALUES (1001, 40, 2, '31-Oct-19');

INSERT INTO Order\_Line\_T (order\_ID, Item\_ID, Order\_Quantity, Shipping\_Date)

VALUES (1002, 20, 1, '7-Aug-19');

INSERT INTO Order\_Line\_T (order\_ID, Item\_ID, Order\_Quantity, Shipping\_Date)

VALUES (1003, 10, 1, '12-Nov-19');

INSERT INTO Order\_Line\_T (order\_ID, Item\_ID, Order\_Quantity, Shipping\_Date)

VALUES (1005, 20, 1, '05-Sep-19');

INSERT INTO Order\_Line\_T (order\_ID, Item\_ID, Order\_Quantity, Shipping\_Date)

VALUES (1010, 30, 2, '2-Nov-19');

COMMIT;

DESC Individual\_T;

DESC business\_T;

DESC Customer\_t

DESC Order\_T;

DESC Employee\_T;

DESC Item\_T;

DESC Order\_Line\_T;

Database Description

**Individual Table**

|  |  |  |
| --- | --- | --- |
| **Name** | **Null?** | **Type** |
| INDIVIDUAL\_ID | NOT NULL | NUMBER |
| INDIVIDUAL\_LNAME |  | VARCHAR2(25) |
| INDIVIDUAL\_FNAME |  | VARCHAR2(25) |
| DOB |  | DATE |
| PHONE\_NUMBER |  | VARCHAR2(15) |
| REWARD\_NO |  | VARCHAR2(9) |

**Business Table**

|  |  |  |
| --- | --- | --- |
| **Name** | **Null?** | **Type** |
| BUSINESS\_ID | NOT NULL | NUMBER |
| BUSINESS\_NAME |  | VARCHAR2(25) |
| BUSINESS\_TYPE |  | VARCHAR2(25) |
| OFFICE\_NUMBER |  | VARCHAR2(15) |

**Customer Table**

|  |  |  |
| --- | --- | --- |
| **Name** | **Null?** | **Type** |
| CUSTOMER\_ID | NOT NULL | NUMBER |
| CUSTOMER\_TYPE |  | VARCHAR2(20) |
| PAYMENT\_METHOD |  | VARCHAR2(20) |
| CUSTOMER\_EMAIL |  | VARCHAR2(40) |
| CUSTOMER\_ADDRESS |  | VARCHAR2(30) |
| CUSTOMER\_CITY |  | VARCHAR2(20) |
| CUSTOMER\_STATE |  | VARCHAR2(4) |
| CUSTOMER\_ZIP\_CODE |  | VARCHAR2(10) |

**Order Table**

|  |  |  |
| --- | --- | --- |
| **Name** | **Null?** | **Type** |
| ORDER\_ID | NOT NULL | NUMBER(38) |
| CUSTOMER\_ID |  | NUMBER |
| EMPLOYEE\_ID |  | NUMBER |
| ORDER\_DATE |  | DATE |

**Employee Table**

|  |  |  |
| --- | --- | --- |
| **Name** | **Null?** | **Type** |
| EMPLOYEE\_ID | NOT NULL | NUMBER |
| EMPLOYEE\_LNAME |  | VARCHAR2(25) |
| EMPLOYEE\_FNAME |  | VARCHAR2(25) |
| EMPLOYEE\_SSN |  | VARCHAR2(11) |
| EMPLOYEE\_ADDRESS |  | VARCHAR2(40) |
| EMPLOYEE\_PHONE |  | VARCHAR2(15) |
| EMPLOYEE\_DOB |  | DATE |
| EMPLOYEE\_GENDER |  | VARCHAR2(8) |

**Item Table**

|  |  |  |
| --- | --- | --- |
| **Name** | **Null?** | **Type** |
| ITEM\_ID | NOT NULL | NUMBER |
| ITEM\_NAME |  | VARCHAR2(25) |
| ITEM\_DESCRIPTION |  | VARCHAR2(50) |
| ITEM\_COLOR |  | VARCHAR2(10) |
| UNIT\_PRICE |  | NUMBER(6,2) |

**Order Line Table**

|  |  |  |
| --- | --- | --- |
| **Name** | **Null?** | **Type** |
| ORDER\_ID | NOT NULL | NUMBER(38) |
| ITEM\_ID | NOT NULL | NUMBER |
| ORDER\_QUANTITY |  | NUMBER |
| SHIPPING\_DATE |  | DATE |

Database Data Instance

**Customer Table**

**SELECT \* FROM Customer\_t;**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CUSTOMER\_ID** | **CUSTOMER\_TYPE** | **PAYMENT\_METHOD** | **CUSTOMER\_EMAIL** | **CUSTOMER\_ADDRESS** | **CUSTOMER\_CITY** | **CUSTOMER\_STA** | **CUSTOMER\_ZIP\_CODE** |
| 101 | I | Visa | Oreocookie@firemail.com | 1800 Roller Ave | Atlanta | GA | 30309 |
| 102 | B | Mastercard | Biscuit@badmail.com | 7512 Country Lane Road #101 | Topeka | KS | 68909 |
| 103 | B | Paypal | Gingerbread@bettermail.com | 1029 Lemon Blvd | Anchorage | AK | 99514 |
| 104 | I | Bitcoin | Paradise@squirrelmail.com | 1001 History Ln | Jackson | MI | 49201 |
| 105 | B | Visa | Marmalade@badmail.com | 101 First St. | Augusta | ME | 04330 |
| 106 | I | Venmo | Ralphsbest@bettermail.com | 1020 State St. | New York | NY | 10001 |
| 107 | B | Amex | TammyJ@gmail.com | 1453 Chocolate Blvd | Orlando | FL | 32812 |
| 108 | I | Apple Pay | JM@bettermail.com | 6606 Sand Rd. | Dallas | TX | 75001 |
| 109 | I | Discover | JJ@gmail.com | 8812 Old Rd. | Sacramento | CA | 94261 |
| 110 | I | Android Pay | MMlove@bettermail.com | 720 Melon Cove | Miami | FL | 33234 |
| 201 | B | Cash | TomeJones@gmail.com | 1000 Grand Blvd. #30 | Nashville | TN | 37027 |
| 202 | I | Check | RickyRicardo@gmail.com | 2042 Coconut Ave. | Dallas | TX | 75001 |
| 203 | I | Check | KoolAid@bettermail.com | 1932 Rock St. | Los Angeles | CA | 90020 |
| 204 | B | Credit | Harrys@gmail.com | 1203 Eagle Blvd. | Los Angeles | CA | 90028 |
| 205 | I | Visa | Marias@bettermail.com | 1545 Vine St. | Los Angeles | CA | 90027 |
| 206 | B | Cash | ASpace@gmail.com | 3030 Figueroa Street | Los Angeles | CA | 90034 |
| 207 | I | Check | Arthurspad@gmail.com | 9790 Glacier Rd. | Baton Rouge | LA | 70805 |
| 208 | B | Check | LisSer@gmail.com | 3402 Logic Ln. | Austin | TX | 78720 |
| 209 | B | Check | Rd@roxon.com | 1000 Imperial Way | San Francisco | CA | 94123 |

**Individual Table**

**SELECT \* FROM Individual\_T;**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **INDIVIDUAL\_ID** | **INDIVIDUAL\_LNAME** | **INDIVIDUAL\_FNAME** | **DOB** | **PHONE\_NUMBER** | **REWARD\_NO** |
| 101 | Gonzales | Matt | 25-FEB-80 | 323-625-7758 | 853659 |
| 202 | Faith | Stella | 05-OCT-99 | 269-589-2186 | 582369 |
| 203 | Valle | Gian | 16-MAY-96 | 568-258-2368 | 964236 |
| 104 | Uruk | Gilgamesh | 01-JAN-00 | 421-432-5332 | 112948 |
| 205 | Worth | Barnaby | 10-MAY-91 | 323-000-2323 | 101243 |
| 106 | Lauren | Ralph | 01-JUN-46 | 213-002-0918 | 712431 |
| 207 | Jones | Tammy | 03-APR-82 | 323-556-0012 | 451986 |
| 108 | Meat | John | 06-MAY-66 | 213-435-1024 | 561834 |
| 109 | Johnson | John | 04-SEP-10 | 310-691-7823 | 340102 |
| 110 | May | Mary | 01-DEC-92 | 341-890-9821 | 300431 |

**Business Table**

**SELECT \* FROM business\_T;**

|  |  |  |  |
| --- | --- | --- | --- |
| **BUSINESS\_ID** | **BUSINESS\_NAME** | **BUSINESS\_TYPE** | **OFFICE\_NUMBER** |
| 201 | Barneys Threads | Retail | 895-985-2586 |
| 102 | Xyz Clothing | Custom Clothing | 323-931-1900 |
| 103 | Second Hand | Consignment | 213-100-3201 |
| 204 | Harry Logistics | Moving Company | 323-808-6969 |
| 105 | Marias Shop | Consignment | 213-452-1891 |
| 206 | Altons Space | Consignment | 323-008-8734 |
| 107 | Arthurs Old Pad | Retail | 323-213-4525 |
| 208 | Liz Services | Moving Logistics | 323-213-1034 |
| 209 | Roxon Designs | Designer | 323-402-7854 |

**Employee Table**

**SELECT \* FROM Employee\_T;**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPLOYEE\_ID** | **EMPLOYEE\_LNAME** | **EMPLOYEE\_FNAME** | **EMPLOYEE\_SSN** | **EMPLOYEE\_ADDRESS** | **EMPLOYEE\_PHONE** | **EMPLOYEE\_DOB** | **EMPLOYEE\_GENDER** |
| 1 | Dough | Boy | 101-32-2012 | 1200 Glorious Blvd | 323-141-0001 | 01-DEC-81 | Male |
| 2 | Jones | Richie | 321-22-4021 | 1001 Cheap St | 213-301-4213 | 02-MAR-90 | Male |
| 3 | Ford | Tom | 201-01-3021 | 7510 Royal Rd | 310-434-0121 | 04-AUG-70 | Male |
| 4 | Harvey | Lisa | 401-51-3671 | 7548 Royal Rd | 330-454-6721 | 04-MAY-95 | Female |

**Item Table**

**SELECT \* FROM Item\_T;**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ITEM\_ID** | **ITEM\_NAME** | **ITEM\_DESCRIPTION** | **ITEM\_COLOR** | **UNIT\_PRICE** |
| 10 | Kempton Suit | Italian Threaded Custom Blazer | Black | 399 |
| 20 | Broadway Suit | Polyester Cotton Jacket | Grey | 100 |
| 30 | Matte Suit | Long Sleeve Collared Button Up | White | 75 |
| 40 | Razor Tie | Full Length Silk Accessory | Red | 50 |

**Order Table**

**SELECT \* FROM Order\_T;**

|  |  |  |  |
| --- | --- | --- | --- |
| **ORDER\_ID** | **CUSTOMER\_ID** | **EMPLOYEE\_ID** | **ORDER\_DATE** |
| 1001 | 101 | 1 | 10-SEP-19 |
| 1002 | 105 | 3 | 31-OCT-19 |
| 1003 | 203 | 3 | 24-SEP-19 |
| 1004 | 106 | 4 | 03-NOV-19 |
| 1005 | 201 | 3 | 04-AUG-19 |
| 1006 | 103 | 1 | 09-NOV-19 |
| 1007 | 209 | 2 | 15-OCT-19 |
| 1008 | 109 | 1 | 01-SEP-19 |
| 1009 | 101 | 2 | 31-OCT-19 |
| 1010 | 102 | 3 | 08-AUG-19 |

**Order Line Table**

**SELECT \* FROM Order\_Line\_T**

|  |  |  |  |
| --- | --- | --- | --- |
| **ORDER\_ID** | **ITEM\_ID** | **ORDER\_QUANTITY** | **SHIPPING\_DATE** |
| 1001 | 40 | 2 | 31-OCT-19 |
| 1002 | 20 | 1 | 07-AUG-19 |
| 1003 | 10 | 1 | 12-NOV-19 |
| 1005 | 20 | 1 | 05-SEP-19 |
| 1010 | 30 | 2 | 02-NOV-19 |

SQL Table changes/add on

* Garrett
* Insert a new business customer

**INSERT INTO** Customer\_T (Customer\_ID, Customer\_type, Payment\_Method, Customer\_Email, Customer\_Address, Customer\_City, Customer\_State, Customer\_Zip\_Code)

VALUES (111, 'B', 'Mastercard', 'RTGroup@me.com', '1309 Vine St.', 'Los Angeles', 'CA', '90027');

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 111 | B | Mastercard | RTGroup@me.com | 1309 Vine St. | Los Angeles | CA | 90027 |

**INSERT INTO** Business\_T (Business\_ID, Business\_name, Business\_type, Office\_number)

VALUES (111, 'RT Association', ' Designer', ' 323-456-5672');

|  |  |  |  |
| --- | --- | --- | --- |
| **BUSINESS\_ID** | **BUSINESS\_NAME** | **BUSINESS\_TYPE** | **OFFICE\_NUMBER** |
| 111 | RT Association | Designer | 323-456-5672 |

* Richard
* Change the Unit price of item ID 10 to $50 less.

**UPDATE** Item\_T

SET Unit\_Price = 349

WHERE Item\_ID = 10;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ITEM\_ID** | **ITEM\_NAME** | **ITEM\_DESCRIPTION** | **ITEM\_COLOR** | **UNIT\_PRICE** |
| 10 | Kempton Suit | Italian Threaded Custom Blazer | Black | 349 |

* Miguel
* Order ID 1008 has been cancelled. Remove it from the service.

**DELETE FROM** Order\_T

WHERE order\_ID = 1008;

|  |  |  |  |
| --- | --- | --- | --- |
| 1007 | 209 | 2 | 15-OCT-19 |
| 1009 | 101 | 2 | 31-OCT-19 |
| 1010 | 102 | 3 | 08-AUG-19 |

* Miguel
* Create a view for all customer in CA.

**CREATE VIEW** CA\_Cust

AS

SELECT \*

FROM customer\_t

WHERE customer\_state IN ('CA');

View created.

SELECT \*

FROM Ca\_Cust;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CUSTOMER\_ID** | **CUSTOMER\_TYPE** | **PAYMENT\_METHOD** | **CUSTOMER\_EMAIL** | **CUSTOMER\_ADDRESS** | **CUSTOMER\_CITY** | **CUSTOMER\_STA** | **CUSTOMER\_ZIP\_CODE** |
| 109 | I | Discover | JJ@gmail.com | 8812 Old Rd. | Sacramento | CA | 94261 |
| 203 | I | Check | KoolAid@bettermail.com | 1932 Rock St. | Los Angeles | CA | 90020 |
| 204 | B | Credit | Harrys@gmail.com | 1203 Eagle Blvd. | Los Angeles | CA | 90028 |
| 205 | I | Visa | Marias@bettermail.com | 1545 Vine St. | Los Angeles | CA | 90027 |
| 206 | B | Cash | ASpace@gmail.com | 3030 Figueroa Street | Los Angeles | CA | 90034 |

SQL Queries (DML)

**Garrett Tice**

**--**List items with more than one order

SELECT Item\_ID, COUNT(Order\_quantity) AS Orders\_with\_that\_item

FROM Order\_line\_t

GROUP BY Item\_id, Order\_quantity

Having Count (order\_quantity) =1

ORDER BY Item\_ID DESC;

|  |  |
| --- | --- |
| **ITEM\_ID** | **ORDERS\_WITH\_THAT\_ITEM** |
| 40 | 1 |
| 30 | 1 |
| 10 | 1 |

By changing the HAVING COUNT (Order\_quantity) > 1 --- It will give the amount of orders that have that item

|  |  |
| --- | --- |
| **ITEM\_ID** | **ORDERS\_WITH\_THAT\_ITEM** |
| 20 | 2 |

**Miguel Guzman**

--List Individual Customers that have placed and not placed and order

--Placed an order

SELECT Individual\_Lname, Individual\_Fname, Customer\_ID

FROM Individual\_T, Customer\_T

WHERE Individual\_T. Individual\_ID = Customer\_T.Customer\_ID

AND Customer\_ID IN

(SELECT Customer\_ID

FROM Order\_T);

|  |  |  |
| --- | --- | --- |
| **INDIVIDUAL\_LNAME** | **INDIVIDUAL\_FNAME** | **CUSTOMER\_ID** |
| Gonzales | Matt | 101 |
| Valle | Gian | 203 |
| Lauren | Ralph | 106 |
| Johnson | John | 109 |

--Not placed an order

SELECT Individual\_Lname, Individual\_Fname, Customer\_ID

FROM Individual\_T, Customer\_T

WHERE Individual\_T. Individual\_ID = Customer\_T.Customer\_ID

AND Customer\_ID NOT IN

(SELECT Customer\_ID

FROM Order\_T);

|  |  |  |
| --- | --- | --- |
| **INDIVIDUAL\_LNAME** | **INDIVIDUAL\_FNAME** | **CUSTOMER\_ID** |
| Faith | Stella | 202 |
| Uruk | Gilgamesh | 104 |
| Worth | Barnaby | 205 |
| Jones | Tammy | 207 |
| Meat | John | 108 |
| May | Mary | 110 |

**Richard Hidajat**

--Display employeeID who assisted more than 2 orders.

SELECT employee\_id, COUNT (order\_id)

FROM order\_t

GROUP BY employee\_id

HAVING COUNT(order\_id) > 2;

|  |  |
| --- | --- |
| **EMPLOYEE\_ID** | **COUNT(ORDER\_ID)** |
| 1 | 3 |
| 3 | 4 |