

ONLINE STORE DATABASE DESIGN AND DEVELOPMENT

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Scenario

The online store database needs to keep track of orders for its inventory. When a customer places orders, the system must record that the order and order items. The system must update the available quantity on hand to reflect that the by product(s) has been sold. When an employee processes orders, the system must confirm that the ordered items are in stock. The online store need to keep track of customers and employees, too. The system must update the available quantity on hand to reflect that the by product(s) has been sold. Each item has item description, item finish and price.

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.

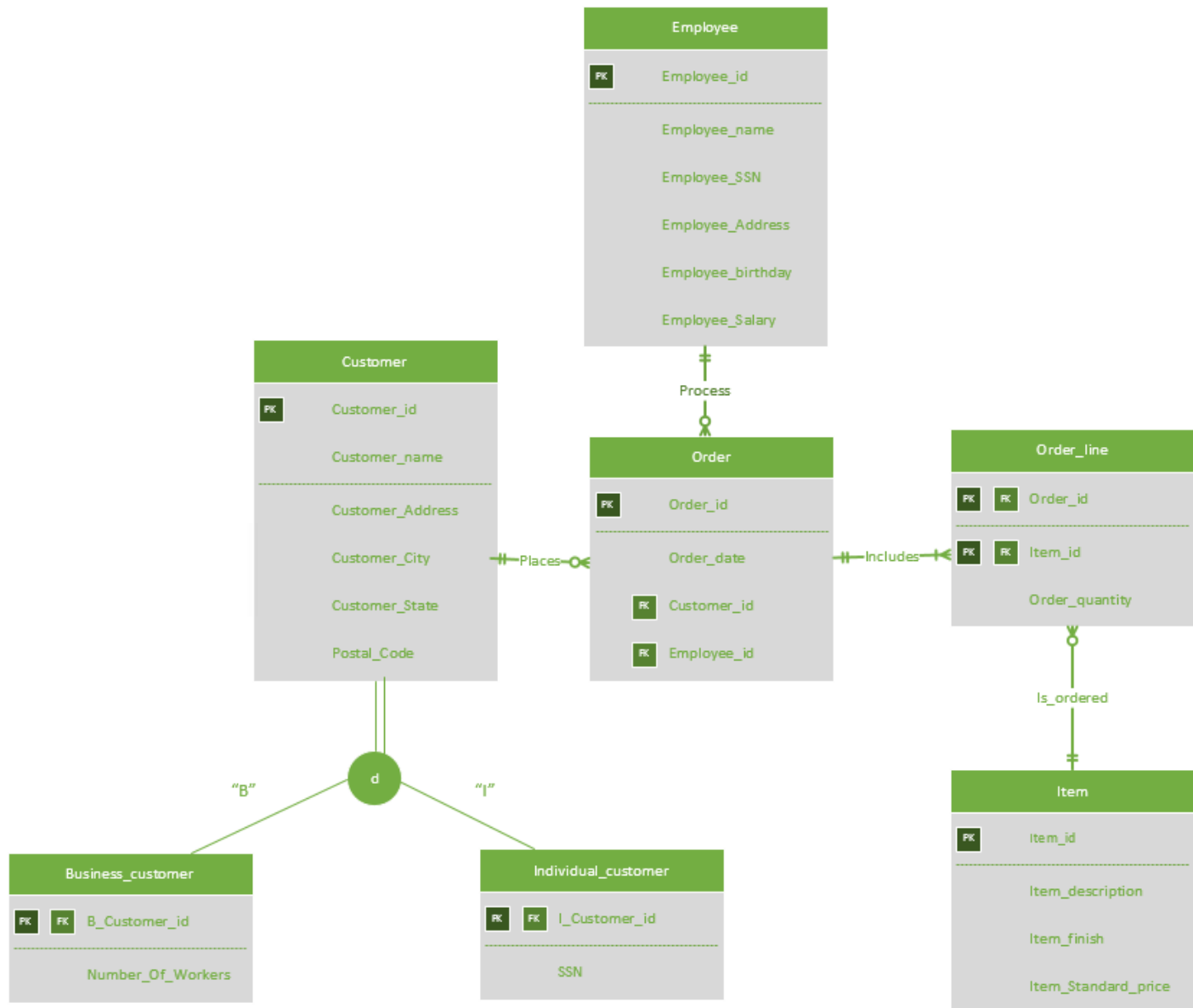
One customer must be either a business or individual customer.

One business customer or individual customer must be a customer.

Entity types and relationship types

	customer	Order	item	employee
customer	--	Placed by	--	--
Order	Places	--	Be in	Process
Item	--	Contain	--	--
employee	--	Processed by	--	--

ER Diagram



Tables & Attributes

Table Name: **Employee**

Employee_id (PK)	Employee_Name	Employee_SSN	Employee_Address	Employee_birthdate	Employee_Salary
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Table Name: **Orders**

Order_id (PK)	Customer_ID(FK)	Employee_id(FK)	Order_date	
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Table Name: **Orders_Line**

Order_ID(PK)(FK)	Item_ID(PK)(FK)	Ordered_Quantity		
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Table Name: **Items**

Item_id(PK)	Item_description	Item_finish	Standard_Price	
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Table Name: **Cust**

Customer_id(PK)	Customer_name	Customer_Address	Customer_City	Customer_State	Postal_code
------------------------	---------------	------------------	---------------	----------------	-------------

Table Name: **B_CUST**

B_Customer_id(PK)(FK)	NUMBER_OF_WORKERS		
------------------------------	-------------------	--	--

Table Name: **I_CUST**

I_Customer_id(PK)(FK)	SSN		
------------------------------	-----	--	--

Referential Integrity

Orders.Employee_id(FK) → Employee.Employee_id (PK)

Orders.Customer_id(FK) → Cust.Customer_id (PK)

Orders_line.Order_id(FK) → Orders.Order_id (PK)

Orders_line.Item_id(FK) → Items.Item_id (PK)

B_Cust.B_Customer_id (FK) → Cust.Customer_id (PK)

I_Cust.I_Customer_id(FK) → Cust.Customer_id(PK)

Functional Dependency Analysis for Normalization

Employee_id → Employee_Name, Employee_SSN, Employee_Address, Employee_birthday, Employee_Salary (Full Dependency)

Order_id → Customer_ID, Employee_id, Order_date (Full Dependency)

Order_ID, Item_ID → Ordered_Quantity (Full Dependency)

Item_id → Item_description, Item_finish, Standard_Price (Full Dependency)

Customer_ID → Customer_name, Customer_Address, Customer_City, Customer_State,(Full Dependency)

PostalCode → Customer_State, Customer_city (Transitive Dependency)

B_Customer_id → NUMBER_OF_WORKERS (Full Dependency)

I_Customer_Id → SSN (Full Dependency)

Normalized tables in the relational

Table Name	1NF	2NF	3NF
Employee	X	X	X
Orders	X	X	X
Orders_Line	X	X	X
Items	X	X	X
Cust	X	X	Transitive
B_Cust	X	X	X
I_Cust	X	X	X

Database Creation (DDL)

DROP TABLE CUST_t CASCADE CONSTRAINTS ;

DROP TABLE I_CUST_t CASCADE CONSTRAINTS ;

DROP TABLE B_CUST_t CASCADE CONSTRAINTS ;

DROP TABLE ORDERS_t CASCADE CONSTRAINTS ;

DROP TABLE EMPLOYEE_t CASCADE CONSTRAINTS ;

DROP TABLE ITEMS_t CASCADE CONSTRAINTS ;

DROP TABLE Orders_line_t CASCADE CONSTRAINTS ;

CREATE TABLE CUST_t

(Customer_Id number NOT NULL, Customer_Name VARCHAR(25), Customer_Address VARCHAR(30), Customer_City VARCHAR(20), Customer_State VARCHAR(2), Postal_Code VARCHAR(10), CONSTRAINT CUST_PK PRIMARY KEY (Customer_Id));

INSERT INTO CUST_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code) VALUES (1001, 'Saikiran Gontyala', '7937 Praire Rose Way', 'Highland', 'CA', '92346');

```
INSERT INTO CUST_t (Customer_Id, Customer_Name, Customer_Address, Customer_City,
Customer_State, Postal_Code)
```

```
VALUES (1002, 'Rupa Mahendran', '109 westchester road', 'Boston', 'MA', '02130');
```

```
INSERT INTO CUST_t (Customer_Id, Customer_Name, Customer_Address, Customer_City,
Customer_State, Postal_Code)
```

```
VALUES (1003, 'Yoshitha Gattu', '7518 Carothers Street', 'Houston', 'TX', '77028');
```

```
INSERT INTO CUST_t (Customer_Id, Customer_Name, Customer_Address, Customer_City,
Customer_State, Postal_Code)
```

```
VALUES (1004, 'Sriganesh Baskaran', '109 Selwyn Road', 'Randolph', 'MA', '02368');
```

```
INSERT INTO CUST_t (Customer_Id, Customer_Name, Customer_Address, Customer_City,
Customer_State, Postal_Code) VALUES (1005, 'Uchechukwu Okafor', '1528 West 207th',
'Torrance', 'CA', '90501');
```

```
CREATE TABLE B_CUST_t (B_CUSTOMER_Id number NOT NULL,
NUMBER_OF_WORKERS number, CONSTRAINT B_CUST_PK PRIMARY KEY
(B_CUSTOMER_Id), CONSTRAINT B_CUST_FK1 FOREIGN KEY (B_Customer_Id)
REFERENCES CUST_t(Customer_Id));
```

```
INSERT INTO B_CUST_t (B_Customer_Id, NUMBER_OF_WORKERS ) VALUES (1011,
24);
```

```
INSERT INTO B_CUST_t (B_Customer_Id, NUMBER_OF_WORKERS ) VALUES (1012,
10);
```

```
INSERT INTO B_CUST_t (B_Customer_Id, NUMBER_OF_WORKERS )VALUES (1013,
86);
```

```
INSERT INTO B_CUST_t (B_Customer_Id, NUMBER_OF_WORKERS ) VALUES (1014,
18);
```

```
INSERT INTO B_CUST_t (B_Customer_Id, NUMBER_OF_WORKERS ) VALUES (1015,
80);
```

```
CREATE TABLE I_CUST_t (I_CUSTOMER_Id number NOT NULL, SSN
number, CONSTRAINT I_CUST_PK PRIMARY KEY (I_CUSTOMER_Id), CONSTRAINT
I_CUST_FK1 FOREIGN KEY (I_Customer_Id) REFERENCES CUST_t(Customer_Id));
```



```

INSERT INTO I_CUST_t (I_Customer_Id, SSN ) VALUES (1001, 123456789);
INSERT INTO I_CUST_t (I_Customer_Id, SSN ) VALUES (1002, 234567891);
INSERT INTO I_CUST_t (I_Customer_Id, SSN ) VALUES (1003, 345678912);
INSERT INTO I_CUST_t (I_Customer_Id, SSN ) VALUES (1004, 456789123);
INSERT INTO I_CUST_t (I_Customer_Id, SSN ) VALUES (1005, 567891234);

```

```

CREATE TABLE ORDERS_t (Order_Id INTEGER NOT NULL, Customer_Id number,
Employee_Id number, Order_Date DATE, CONSTRAINT ORDERS_PK PRIMARY KEY
(Order_Id), CONSTRAINT ORDERS_FK1 FOREIGN KEY (Customer_Id) REFERENCES
CUST_t(Customer_Id), CONSTRAINT ORDERS_FK2 FOREIGN KEY (Employee_Id)
REFERENCES EMPLOYEE_t(Employee_Id));

```

```

INSERT INTO ORDERS_t (Order_Id, Customer_Id, Employee_Id, Order_Date) VALUES
(111, 1001, 3, '21/Dec/18');

```

```

INSERT INTO ORDERS_t (Order_Id, Customer_Id, Employee_Id, Order_Date) VALUES
(112, 1002, 2, '21/Dec/18');

```

```

INSERT INTO ORDERS_t (Order_Id, Customer_Id, Employee_Id, Order_Date) VALUES
(113, 1003, 4, '21/Dec/18');

```

```

INSERT INTO ORDERS_t (Order_Id, Customer_Id, Employee_Id, Order_Date) VALUES
(114, 1004, 5, '21/Dec/18');

```

```

INSERT INTO ORDERS_t (Order_Id, Customer_Id, Employee_Id, Order_Date) VALUES
(115, 1005, 1, '21/Dec/18');

```

```

CREATE TABLE EMPLOYEE_t (Employee_Id number NOT NULL, Employee_Name
VARCHAR(25), Employee_SSN number, Employee_Address VARCHAR(50),
Employee_Birthday VARCHAR(20), Employee_Salary Decimal(7,2), CONSTRAINT
EMPLOYEE_PK PRIMARY KEY (Employee_Id));

```

```

INSERT INTO EMPLOYEE_t (Employee_Id, Employee_Name, Employee_SSN,
Employee_Address, Employee_Birthday, Employee_Salary) VALUES (1, 'Zhicheng Yu',
'847364956', '1 Orange Way Los Angeles, CA', '05-12-1995', 45000.00);

```

```
INSERT INTO EMPLOYEE_t (Employee_Id, Employee_Name, Employee_SSN,
Employee_Address, Employee_Birthday, Employee_Salary) VALUES (2, 'Noelle Cespedes',
'906483264', '5154 State University Drive Los Angeles, CA', '09-01-1980', 50000.00);
```

```
INSERT INTO EMPLOYEE_t (Employee_Id, Employee_Name, Employee_SSN,
Employee_Address, Employee_Birthday, Employee_Salary) VALUES (3, 'Prudhvi Vetukuri',
'648340700', '22518 Figueroa St. Carson, CA', '03-28-1989', 48000.00);
```

```
INSERT INTO EMPLOYEE_t (Employee_Id, Employee_Name, Employee_SSN,
Employee_Address, Employee_Birthday, Employee_Salary) VALUES (4, 'Maria Espinoza',
'094672111', '1 Sea Hawk Way Redondo Beach, CA', '01-01-1993', 45000.00);
```

```
INSERT INTO EMPLOYEE_t (Employee_Id, Employee_Name, Employee_SSN,
Employee_Address, Employee_Birthday, Employee_Salary) VALUES (5, 'Clarence Serdoff',
'753962538', '24428 Eshelman Ave Lomita, CA', '05-09-1988', 49950.00);
```

```
CREATE TABLE ITEMS_t (Item_Id number NOT NULL, Item_Description VARCHAR(50),
Item_Finish VARCHAR(20), Standard_Price Decimal(6,2) , CONSTRAINT ITEMS_PK
PRIMARY KEY (Item_Id));
```

```
INSERT INTO ITEMS_t (Item_Id, Item_Description, Item_Finish, Standard_Price) VALUES
(4021, 'Norton Security Deluxe', 'Norton', 20.00);
```

```
INSERT INTO ITEMS_t (Item_Id, Item_Description, Item_Finish, Standard_Price) VALUES
(4022, '128GB USB', 'SanDisk', 21.45);
```

```
INSERT INTO ITEMS_t (Item_Id, Item_Description, Item_Finish, Standard_Price) VALUES
(4023, 'Laptop Backpacks', 'HP', 25.47);
```

```
INSERT INTO ITEMS_t (Item_Id, Item_Description, Item_Finish, Standard_Price) VALUES
(4024, 'Power Adapter', 'MacBook', 69.00);
```

```
INSERT INTO ITEMS_t (Item_Id, Item_Description, Item_Finish, Standard_Price) VALUES
(4025, 'Power Adapter', 'HP', 18.99);
```

```
CREATE TABLE Orders_line_t (Order_Id INTEGER NOT NULL, Item_Id number NOT
NULL, Ordered_Quantity number, CONSTRAINT Orders_line_PK PRIMARY KEY (Order_Id,
Item_Id), CONSTRAINT Orders_line_FK1 FOREIGN KEY (Order_Id) REFERENCES
ORDERS_t(Order_Id), CONSTRAINT Orders_line_FK2 FOREIGN KEY (Item_Id)
REFERENCES ITEMS_t(Item_Id));
```

```
INSERT INTO Order_line_t (Order_Id, Item_Id, Ordered_Quantity) VALUES ( 111, 4021, 1);
```

```

INSERT INTO Order_line_t (Order_Id, Item_Id, Ordered_Quantity) VALUES ( 112, 4022, 4);
INSERT INTO Order_line_t (Order_Id, Item_Id, Ordered_Quantity) VALUES ( 113, 4023, 15);
INSERT INTO Order_line_t (Order_Id, Item_Id, Ordered_Quantity) VALUES ( 114, 4024, 3);
INSERT INTO Order_line_t (Order_Id, Item_Id, Ordered_Quantity) VALUES ( 115, 4025, 6);
INSERT INTO Order_line_t (Order_Id, Item_Id, Ordered_Quantity) VALUES ( 115, 4024, 4);

COMMIT;

```

Database Description

DESC ORDERS_t;

	Null?	Type
ORDER_ID	NOT NULL	NUMBER(38)
CUSTOMER_ID		NUMBER
EMPLOYEE_ID		NUMBER
ORDER_DATE		DATE

DESC I_CUST_t;

Name	Null?	Type
I_CUSTOMER_ID	NOT NULL	NUMBER
SSN		NUMBER

DESC B_CUST_t;

Name	Null?	Type
B_CUSTOMER_ID	NOT NULL	NUMBER
NUMBER_OF_WORKERS		NUMBER

DESC CUST_t;

Name	Null?	Type
CUSTOMER_ID	NOT NULL	NUMBER
CUSTOMER_NAME		VARCHAR2(25)
CUSTOMER_ADDRESS		VARCHAR2(30)
CUSTOMER_CITY		VARCHAR2(20)
CUSTOMER_STATE		VARCHAR2(2)
POSTAL_CODE		VARCHAR2(10)

DESC EMPLOYEE_t;

Name	Null?	Type
EMPLOYEE_ID	NOT NULL	NUMBER
EMPLOYEE_NAME		VARCHAR2(25)
EMPLOYEE_SSN		NUMBER
EMPLOYEE_ADDRESS		VARCHAR2(50)
EMPLOYEE_BIRTHDAY		VARCHAR2(20)
EMPLOYEE_SALARY		NUMBER(7,2)

DESC ITEMS_t;

Name	Null?	Type
ITEM_ID	NOT NULL	NUMBER
ITEM_DESCRIPTION		VARCHAR2(50)
ITEM_FINISH		VARCHAR2(20)
STANDARD_PRICE		NUMBER(6,2)

DESC Order_line_t

Name	Null?	Type
ORDER_ID	NOT NULL	NUMBER(38)
ITEM_ID	NOT NULL	NUMBER
ORDERED_QUANTITY		NUMBER

Database Instances

SELECT * FROM CUST_t;

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_STATE	POSTAL_CODE
1001	Saikiran Gontyala	7937 Praire Rose Way	Highland	CA	92346
1002	Rupa Mahendran	109 westchester road	Boston	MA	02130
1003	Yoshitha Gattu	7518 Carothers Street	Houston	TX	77028
1004	Sriganesh Baskaran	109 Selwyn Road	Randolph	MA	02368
1005	Uchechukwu Okafor	1528 West 207th	Torrance	CA	90501

SELECT * FROM B_CUST_t;

B_CUSTOMER_ID	NUMBER_OF_WORKERS
1011	24
1012	10
1013	86
1014	18
1015	80

SELECT * FROM I_CUST_t;

I_CUSTOMER_ID	SSN
1001	123456789
1002	234567891
1003	345678912
1004	456789123
1005	567891234

SELECT * FROM ORDERS_t;

ORDER_ID	CUSTOMER_ID	EMPLOYEE_ID	ORDER_DATE
111	1001	3	21-DEC-18
112	1002	2	21-DEC-18
113	1003	4	21-DEC-18
114	1004	5	21-DEC-18
115	1005	1	21-DEC-18

SELECT * FROM EMPLOYEE_t;

EMPLOYEE_ID	EMPLOYEE_NAME	EMPLOYEE_SSN	EMPLOYEE_ADDRESS	EMPLOYEE_BIRTHDAY	EMPLOYEE_SALARY
1	Zhicheng Yu	847364956	1 Orange Way Los Angeles, CA	05-12-1995	45000
2	Noelle Cespedes	906483264	5154 State University Drive Los Angeles, CA	09-01-1980	50000
3	Prudhvi Vetukuri	648340700	22518 Figueroa St. Carson, CA	03-28-1989	48000
4	Maria Espinoza	94672111	1 Sea Hawk Way Redondo Beach, CA	01-01-1993	45000
5	Clarence Serdoff	753962538	24428 Eshelman Ave Lomita, CA	05-09-1988	49950

SELECT * FROM ITEMS_t;

ITEM_ID	ITEM_DESCRIPTION	ITEM_FINISH	STANDARD_PRICE
4021	Norton Security Deluxe	Norton	20
4022	128GB USB	SanDisk	21.45
4023	Laptop Backpacks	HP	25.47
4024	Power Adapter	MacBook	69
4025	Power Adapter	HP	18.99

SELECT * FROM Orders_line_t;

ORDER_ID	ITEM_ID	ORDERED_QUANTITY
111	4021	1
112	4022	4
113	4023	15
114	4024	3
115	4025	6
115	4024	4

SQL Queries (DML)

Update CUSTOMER_ADDRESS of CUSTOMER whose CUSTOMER_ID is 1004

UPDATE CUST_T SET

CUSTOMER_ADDRESS = '5154 State University Drive'

WHERE CUSTOMER_ID = 1004;

BEFORE:

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_STATE	POSTAL_CODE
1001	Saikiran Gontyala	7937 Praire Rose Way	Highland	CA	92346
1002	Rupa Mahendran	109 westchester road	Boston	MA	02130
1003	Yoshitha Gattu	7518 Carothers Street	Houston	TX	77028
1004	Sriganesh Baskaran	109 Selwyn Road	Randolph	MA	02368
1005	Uchechukwu Okafor	1528 West 207th	Torrance	CA	90501

AFTER:

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_STATE	POSTAL_CODE
1001	Saikiran Gontyala	7937 Praire Rose Way	Highland	CA	92346
1002	Rupa Mahendran	109 westchester road	Boston	MA	02130
1003	Yoshitha Gattu	7518 Carothers Street	Houston	TX	77028
1004	Sriganesh Baskaran	5154 State University Drive	Randolph	MA	02368
1005	Uchechukwu Okafor	1528 West 207th	Torrance	CA	90501

INSERT STATEMENT

INSERT INTO CUST_t (Customer_Id, Customer_Name, Customer_Address, Customer_City, Customer_State, Postal_Code) VALUES (1006, 'Kaneohe Homes', '112 Kiowai St.', 'Kaneohe', 'HI', '96744');

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_STATE	POSTAL_CODE
1001	Saikiran Gontyala	7937 Praire Rose Way	Highland	CA	92346
1002	Rupa Mahendran	109 westchester road	Boston	MA	02130
1003	Yoshitha Gattu	7518 Carothers Street	Houston	TX	77028
1004	Sriganesh Baskaran	5154 State University Drive	Randolph	MA	02368
1005	Uchechukwu Okafor	1528 West 207th	Torrance	CA	90501
1006	Kaneohe Homes	112 Kiowai St.	Kaneohe	HI	96744

Create a view for customer in New York, California and Florida.

```
CREATE VIEW CUSTOMERS_IN_TX_FL_CA
AS
SELECT CUSTOMER_NAME, CUSTOMER_STATE
FROM CUST_T
WHERE CUSTOMER_STATE IN ('TX', 'CA', 'HI');
```

CUSTOMER_NAME	CUSTOM
Saikiran Gontyala	CA
Yoshitha Gattu	TX
Uchechukwu Okafor	CA
Kaneohe Homes	HI

Display all customer names and their respective order IDs including those without any order

```
SELECT Customer_Name, Customer_State, Order_id
FROM Cust_T LEFT OUTER JOIN Orders_T ON Cust_t.customer_id = Orders_t.customer_id
ORDER BY Order_id;
```

CUSTOMER_NAME	CUSTOM	ORDER_ID
Saikiran Gontyala	CA	111
Rupa Mahendran	MA	112
Yoshitha Gattu	TX	113
Sriganesh Baskaran	MA	114
Uchechukwu Okafor	CA	115
Kaneohe Homes	HI	

Display to determine the number of customers coming from each State.

```
SELECT CUSTOMER_STATE, COUNT(CUSTOMER_STATE) Customers_per_State
FROM CUST_T
GROUP BY CUSTOMER_STATE
HAVING COUNT(*) >0;
```

CUSTOM	CUSTOMERS_PER_STATE
HI	1
CA	2
MA	2
TX	1

Display to determine the number of orders each employee managed.

```
SELECT EMPLOYEE_ID, COUNT(ORDER_ID)ORDERS_MANAGED
FROM ORDERS_T
GROUP BY EMPLOYEE_ID
HAVING COUNT(*) >0;
```

EMPLOYEE_ID	ORDERS_MANAGED
5	1
3	1
2	1
1	1
4	1

Display to determine the Order details where Customer_id is more than 1004

```
SELECT *
FROM order_p
WHERE order_id IN (SELECT order_id
FROM order_p
WHERE customer_id > 1004) ;
```

ORDER_ID	CUSTOMER_ID	EMPLOYEE_ID	ORDER_DATE
115	1005	1	21-DEC-18

Creating PROCEDURE

```
CREATE OR REPLACE PROCEDURE QUERY_CUST (v_id IN cust_t.customer_id%TYPE,
v_name OUT cust_t.customer_name%TYPE, v_address OUT cust_t.customer_address%TYPE,
v_state OUT cust_t.customer_state%TYPE)
```

```
IS
```

```
BEGIN
```

```
SELECT customer_name, customer_address, customer_state
```

```
INTO v_name, v_address, v_state
```

```
FROM cust_t
```

```
WHERE customer_id = v_id;
```

```
END query_CUST;
```

```
/
```

```
Variable g_name varchar(25)
```

```
Variable g_address varchar2(30)
```

```
Variable g_state varchar(2)
```

```
EXECUTE QUERY_CUST (1005, :g_name, :g_address, :g_state)
```

```
PRINT g_name g_address g_state
```

G_NAME
Uchechukwu Okafor

G_ADDRESS
1528 West 207th

G_STATE
CA

Form of the Customer whose Customer_id is 1001

CUSTOMER_ID	1001
CUSTOMER_NAME	Saikiran Gontyala
CUSTOMER_ADDRESS	7937 Praire Rose Way
CUSTOMER_CITY	Highland
CUSTOMER_STATE	CA
POSTAL_CODE	92346

Quary of the Customer whose Customer_id is 1001

Expr1000	CUSTOMER_NAME	CUSTOMER_ADDRESS	CUSTOMER_	CUSTOMER_
1001	Saikiran Gontyala	7937 Praire Rose Way	Highland	1001
*				

Report of all the Customers

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_STATE	POSTAL_CODE
1001	Saikiran Gontyala	7937 Praire Rose Way	Highland	CA	92346
1002	Rupa Mahendran	109 westchester road	Boston	MA	02130
1003	Yoshitha Gattu	7518 Carothers Street	Houston	TX	77028
1004	Sriganesh Baskaran	109 Selwyn Road	Randolph	MA	02368
1005	Uchechukwu Okafor	1528 West 207th	Torrance	CA	90501