

Gino's Pizza

Restaurant Order Management System

Team Project Phase 3 Report

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Table of Contents

1.	Phase 1	
	1.1. Overview	3
	1.2. Scope	3
	1.3. Assumptions	3
	1.4. Roles	4
	1.5. Business Requirements	4-6
	1.6. Definitions	6
	1.7. Summary	6-7
2.	Phase 2	
	2.1. Changes from Phase 1 Report	7
	2.2. Entity Relationship Diagram	8
	2.3. Relational Model	9
3.	Phase 3	10
	3.1. Table Creation Scripts	10-12
	3.2. Inserting Data into All Tables	13-24
	3.3. Queries	25-35
	3.4. Workflow Demonstrations	36-38

Phase 1

1.1 Overview

Gino's Pizza is a fast-casual restaurant located in Marietta. The restaurant is known for its delicious pizza and friendly service. With the growth of the business, the need to create a database management system that helps the restaurant improve productivity and optimize daily operations became evident. The proposed database management system is designed to assist the restaurant's order management by providing automated functionalities such as sales, supplies, and purchase orders.

This document outlines the results of the basic business requirement analysis relevant to the order management database system, including the scope, assumptions, roles, business rules and a brief summary of the system.

1.2 Scope

This DBMS is designed mainly for restaurant order management only, and therefore, will not include rent, utilities, and financial functions outside the scope of order management. The exception will be employee information such as contact and salary information, even though they do not explicitly fall under the order management category.

1.3 Assumptions

- Employees are not provided health care.
- Only the manager can place purchase orders to vendors.
- Employees are regularly and consistently updating inventory (i.e.- products/supplies that are being used).
- Once an order is fulfilled, the employee assigned to an order will check off the order status as "fulfilled."
- Customer should be able to place an order successfully via one of the declared methods.
- Vendors (a.k.a. suppliers) will send an invoice of the purchase order to the restaurant upon shipment.

1.4 Roles

User	Main Responsibilities
Manager	 Manage all supply order placements, vendor payments, hire/schedule of all employees, and salary payments. Record billing information from the vendor when a new order shipment arrives. System administration.
Chef	 Manage tasks related to prep, cooking and fulfilling orders. Update inventory of perishable/non-perishable supplies.
Staff (Cashier, Server, Kitchen)	 Take customer's orders. Place orders per to customer's requests. Process customer's payments. Fulfill completed orders (dine-in, pick-up or delivery).
Customer	 Place orders in person, by phone or online. Make payment of order by cash or credit card. May pick up, dine in or have it delivered. May create/use online account for orders.

1.5 Business Requirements

Customer

- Customer can place an order by phone, online or in person.
- Customer must register/create an online account to place orders online.
- Customer specifies the order type- whether the order is for pick-up, dine-in, or deliveryat the time of order.
- Once customer places an order, an order ID is assigned to include the date, order details (i.e.- menu items), total price, payment method and payment status (paid/unpaid).
- Phone and online orders can be paid at the time of order or at delivery/pick up.
- Customer may pay by cash or credit card.
- Customer with a large order may place the order days prior. In such case, the "order date" shall reflect the date the order is placed, and "order details date" shall reflect the date the order is fulfilled.
- Customer info retained by the business shall be:
 - Last & first name, phone number, email, address, credit card number
- Customer info may be obtained by:
 - From credit card info upon payment
 - Customer registers online (to place order)
 - Restaurant staff enters data at the restaurant

Employee

- Employees must be able to access the system using valid credentials.
- All employees shall be able to view a list of orders and their custom pizzas.
- All employees must work 30-40 hours a week.
- Staff must be able to place and process an order for customer.
- Manager shall have employee's personal info, such as: last & first name, phone number, SSN, ID, email, address, birthdate, salary.
- Manager shall handle all salaries, bills, vendor payments, supply orders, hiring and schedules of all staff.
- Manager shall record the billing information from the vendor when a new order shipment arrives
- All employees are full-time, but employees can either be staff or manager, not both simultaneously.

Order and Order Details

- Orders may be placed in person, by phone or online.
- Orders will be entered by the staff according to the customers.
- Order number will be assigned when a staff fills out an order entry.
- Each order will be assigned an employee who is responsible for ensuring that the order is fulfilled.
- There are 3 types of orders: dine-in, pick-up, or delivery.
- Order table, order date, menu item number (food items this number should reference the item number from the menu), and quantity will also be recorded.
- The order system will track payment options (by cash or credit card only) and record every payment transaction.

Items

- Each item shall be assigned an item number. The item number will be referenced in the order details when placing an order from a customer.
- Items will have will have the following attributes:
 - Item number (Pizza, Salad, Sides, Beverages)
 - o Item name
 - Item descriptions
 - o Price

Vendor

- The manager shall record the billing information from the vendor when a new order shipment comes in.
- For every shipment, manager shall enter the billing number provided by the vendor, vendor ID, supply ID, delivery date, product descriptions, and cost.

Supply

- All employees shall regularly track and update ingredients and supplies according to the threshold levels.
- Each supply shall have a unique ID, supply name, and quantity.
- Supply inventory may be organized in various ways alphabetically, by cost or by category.

Purchase Order

- Only manager can place purchase orders.
- Manager can create multiple purchase orders to vendor.
- One purchase order shall be created by and associated with one employee, the manager.
- Vendor can have multiple purchase orders.
- One purchase order can have only one vendor.

1.6 Definitions

- *Customer* is defined as any person or organization that places an order for any item(s) sold by the restaurant and makes payment to purchase it.
- *Employee* is defined as any person hired by the manager to work for the restaurant and receive monetary compensation in return for the labor. Any non-paid volunteer workforce shall not be considered an employee.
- Order is defined as a customer-initiated request of menu items to purchase.
- *Item* is defined as a listing of food items available for sale at this business.
- *Vendor* (a.k.a. *supplier*) is defined as a person or company that sells perishable and non-perishable goods to enable the operation of this business.
- *Purchase Order* is defined as a restaurant-generated document that authorizes a purchase transaction including descriptions, quantities, prices, payment terms, date of shipment, and identifies a specific seller (a.k.a. vendor or supplier).
- *Supply* is defined as all ingredients necessary for creating items on the menu (e.g. flour, butter, tomato, cheese, lettuce, coke), as well as all supplies necessary for fulfillment of the order (e.g. napkins, utensils, to-go boxes, cups, plates, kitchen tools).

1.7 Summary

The goal of this restaurant order management system is to improve efficiency and productivity by automating the functions pertaining to order management. The proposed order management system will store, track, maintain, and secure records of customers, orders, employees, supplies, vendors and purchase orders. The system will provide a reliable, secure, and efficient method for record keeping, which will enable the restaurant to focus its resources on activities of greater importance than record keeping. The information from this system will also improve the

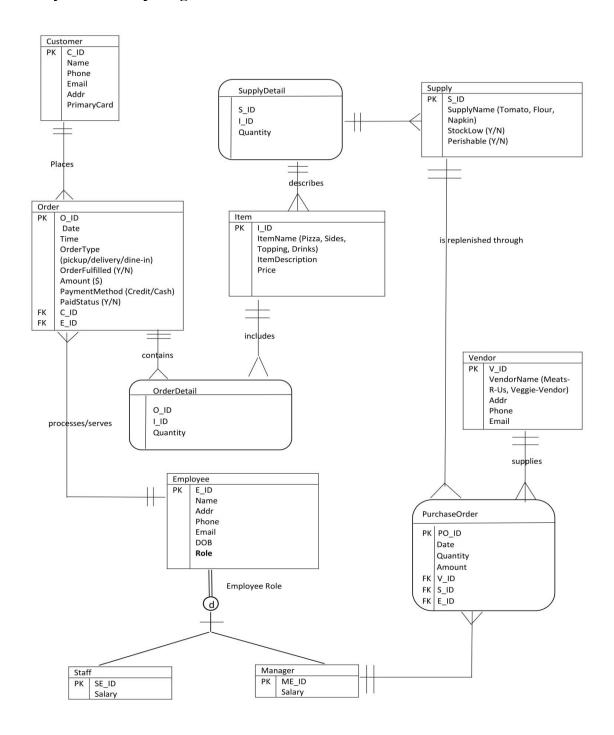
restaurant's ability with planning and management, through various robust query and reporting functions.

Phase 2

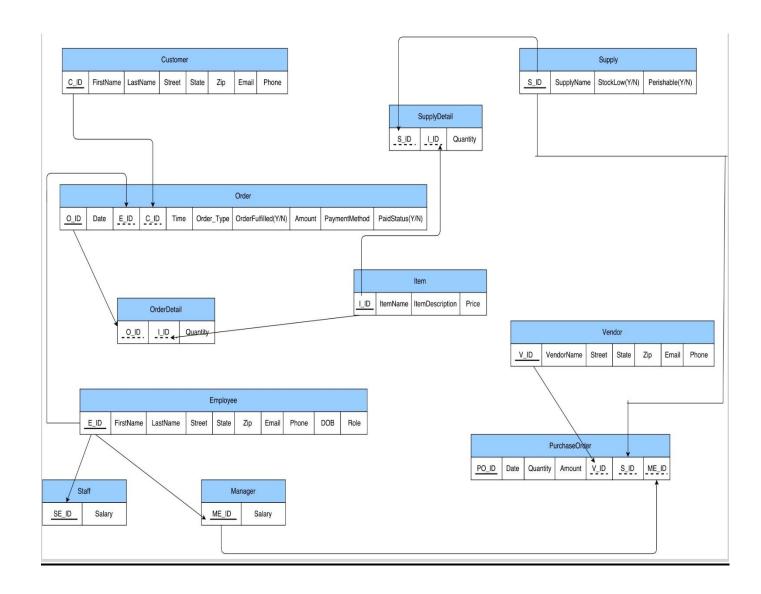
2.1 Changes from Phase 1 Report

- Only manager can place purchase orders.
- All employees are full-time, but employees can either be staff or manager, not both simultaneously
- "Menu" entity shall be referred to as "Item" in the DB.
 "Supplier" shall be referred to as "Vendor" in the DB.
- "Product" shall be referred to as "Supply" in the DB.

2.2 Entity Relationship Diagram



2.3 Relational Model



3. Phase 3

3.1. SQL Table Creation Scripts

Customer Table

```
Create Table Customer (
Customer_ID varchar2 (10) not null,
First_Name varchar2 (25) not null,
Last Name varchar2 (25) not null,
Street varchar2 (50),
City varchar2 (20),
State varchar2 (20),
Zip number (10,0),
Email_ID varchar2 (30) not null,
Phone number (15,0),
Constraint Customer ID Primary key (Customer ID));
Order Table
Create table Orders (
Order ID varchar2(10),
Order Date date,
Employee ID varchar2(10),
Customer ID varchar2(10),
Order_Time varchar2(10),
Order Type varchar2(20),
Order Fulfilled varchar2(5),
Amount number (6,0),
Payment_Method varchar2(15),
Paid Status varchar2(5),
Constraint Order_ID Primary Key(Order_ID),
Constraint Employee_ID_FK Foreign Key (Employee_ID) references Employee
(Employee ID),
Constraint Customer ID FK Foreign Key(Customer ID) references Customer(Customer ID));
Order Detail Table
Create table OrderDetail (
Order ID varchar2(10),
Item ID varchar2(10),
Quantity number (3,0),
constraint OrderDetail_PK Primary Key (Order_ID, Item_ID),
Constraint OrderDetail Order Foreign Key(Order ID) references Orders(Order ID),
```

Constraint OrderDetail Item foreign key(Item ID) references Item(Item ID));

Employee Table

```
Create table Employee (
Employee_ID varchar2 (10) not null,
First_Name varchar2 (25) not null,
Last_Name varchar2 (25) not null,
Street varchar2 (50),
City varchar2 (20),
State varchar2 (20),
Zip number (10, 0),
Email_ID varchar2 (50),
Phone number (15, 0),
DOB varchar2 (15),
Role varchar2 (10),
Constraint Employee ID Primary Key (Employee ID));
Staff Table
Create table Staff (
Staff_ID varchar2 (10),
Salary number (10,0),
Constraint Staff ID Primary Key(Staff ID),
Constraint Staff_IDFK foreign key (Staff_ID) references Employee (Employee_ID));
Manager Table
Create table Manager (
Manager_ID varchar2(10),
Salary number (10,0),
Constraint Manager_ID Primary Key(Manager_ID),
Constraint Manager_ID_FK foreign key (Manager_ID) references Employee (Employee_ID));
Supply Detail Table
Create table SupplyDetail (
Supply ID varchar2(10),
Item_ID varchar2(10),
Quantity number (3,0),
constraint SupplyDetail_PK Primary Key (Supply_ID, Item_ID),
Constraint SupplyDetail_Supply Foreign Key (Supply_ID) references Supply (Supply_ID),
Constraint SupplyDetail_Item foreign key(Item_ID) references Item(Item_ID));
```

Item Table

```
Create table Item (
Item_ID varchar2(10),
Item_Name varchar2(25),
Item_Description varchar2(100),
Price varchar2(5),
Constraint Item_ID Primary Key(Item_ID));
```

Supply Table

```
Create table Supply (
Supply_ID varchar2(10),
Supply_Name varchar2(25),
StockLow varchar2(5),
Perishable varchar2(5),
Constraint Supply_IDPK Primary Key(Supply_ID));
```

Vendor Table

```
Create table Vendor (
Vendor_ID varchar2(10),
Vendor_Name varchar2(25),
Street varchar2(50),
City varchar2(20),
State varchar2(20),
zip number (10,0),
Email_ID varchar2(50),
Phone number (15,0),
Constraint Vendor_ID primary key(Vendor_ID));
```

Purchase Order Table

```
Create Table PurchaseOrder (
PurchaseOrder_ID varchar2(10),
PODate date,
Quantity number (5,0),
Amount number (5,0),
Vendor_ID varchar2(10),
Supply_ID varchar2(10),
Manager_ID varchar2(10),
Constraint PurchaseOrder_ID Primary Key(PurchaseOrder_ID),
Constraint POVendor_ID Foreign Key (Vendor_ID) references Vendor (Vendor_ID),
Constraint POSupply_ID Foreign Key (Supply_ID) references Supply (Supply_ID),
Constraint POManager_ID Foreign Key(Manager_ID) references Manager(Manager_ID));
```

3.2 Inserting Data into All Tables

Customer Table

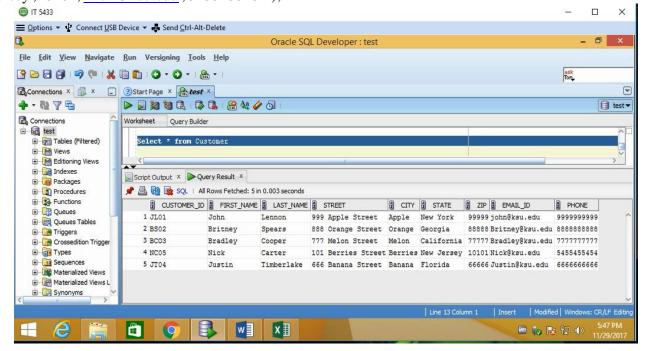
Insert into Customer (Customer_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone) values ('JL01', 'John','Lennon','999 Apple Street','Apple','New York',99999,'John@ksu.edu','999999999');

Insert into Customer (Customer_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone) values ('BS02','Britney','Spears','888 Orange Street','Orange','Georgia',888888,'Britney@ksu.edu','8888888888');

Insert into Customer (Customer_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone) values ('BCO3','Bradley','Cooper','777 Melon Street','Melon','California',77777,'Bradley@ksu.edu','7777777777);

Insert into Customer (Customer_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone) values ('JT04','Justin','Timberlake','666 Banana Street','Banana','Florida',66666,'Justin@ksu.edu','6666666666');

Insert into Customer (Customer_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone) values ('NC05','Nick','Carter','101 Berries Street','Berries','New Jersey',10101,'Nick@ksu.edu','5455455454');



Order Table

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_105', (to_date('27/11/2017','DD/MM/YYYY')), 'E_JS05', 'NC05','10:15','Pick-Up','Yes',45,'Credit Card','Yes');

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_104', (to_date('25/11/2017','DD/MM/YYYY')), 'E_RS04', 'JT04','14:45','Pick-Up','Yes',36,'Cash','Yes');

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, paid_Status) values ('O_103', (to_date('21/11/2017','DD/MM/YYYY')), 'E_HD03', 'BCO3','12:30','Dine-In','Yes',112,'Credit Card','Yes');

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_102', (to_date('18/11/2017','DD/MM/YYYY')), 'E_HM02', 'BS02','16:00','Take-Out','Yes',120,'Credit Card','Yes');

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_101', (to_date('17/11/2017','DD/MM/YYYY')), 'E_RM01', 'JL01','11:00','Dine-in','Yes',54,'Cash','Yes');

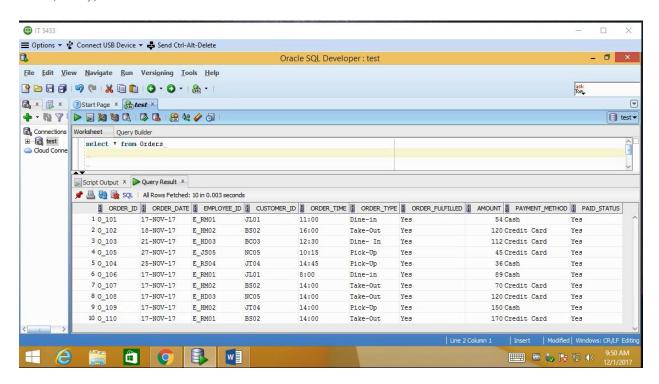
Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_106', (to_date('17/11/2017','DD/MM/YYYY')), 'E_RM01', 'JL01','8:00','Dine-in','Yes',89,'Cash','Yes');

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_109', (to_date('17/11/2017','DD/MM/YYYY')), 'E_HM02', 'JT04','14:00','Pick-Up','Yes',150,'Cash','Yes');

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_110', (to_date('17/11/2017','DD/MM/YYYY')), 'E_RM01', 'BS02','14:00','Take-Out','Yes',170,'Credit Card','Yes');

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_108', (to_date('17/11/2017','DD/MM/YYYY')), 'E_HD03', 'NC05','14:00','Take-Out','Yes',120,'Credit Card','Yes');

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_107', (to_date('17/11/2017','DD/MM/YYYY')), 'E_HM02', 'BS02','14:00','Take-Out','Yes',70,'Credit Card','Yes');



Order Detail Table

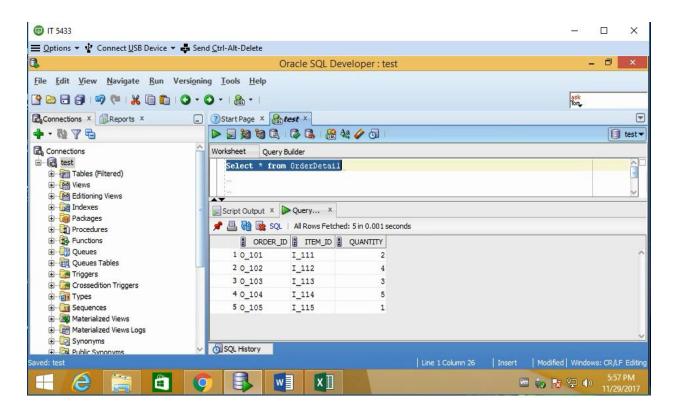
Insert into OrderDetail (Order_ID, Item_ID, Quantity) values ('O_101','I_111',2);

Insert into OrderDetail (Order_ID, Item_ID, Quantity) values ('O_102','I_112',4);

Insert into OrderDetail (Order_ID, Item_ID, Quantity) values ('O_103','I_113',3);

Insert into OrderDetail (Order_ID, Item_ID, Quantity) values ('O_104','I_114',5);

Insert into OrderDetail (Order_ID, Item_ID, Quantity) values ('O_105', 'I_115',1);



Employee Table

Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_JS05','Jessica','Simpsons','111 Peach St', 'Peachtree', 'Georgia', 11111, 'Jessica1@ksu.edu','11111111111','5/12/1975','Manager');

Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_RS04','Ren','Stevens','222 Hot St','Holler','Georgia',22222, 'Ren@ksu.edu', '2222222222','5/31/1993','Waiter');

Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_HD03', 'Hilary', 'Duff','333 Middle st', 'Middleton', 'Georgia', 33333, 'Hilary@ksu.edu', '3333333333','4/12/1987','BarTender');

Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_HM02', 'Hanna', 'Montana', '444 Front St', 'Dakota', 'Georgia', 44443, 'Hanna@ksu.edu', '4444444444', '6/5/1992', 'Hostess');

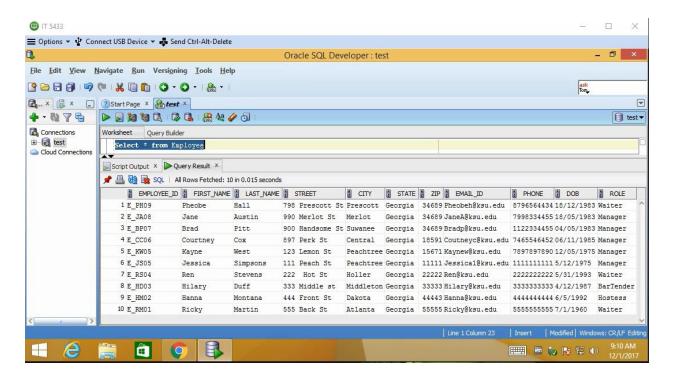
Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_RM01', 'Ricky', 'Martin', '555 Back St', 'Atlanta', 'Georgia', 55555, 'Ricky@ksu.edu', '5555555555', '7/1/1960', 'Waiter');

Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_PH09','Pheobe','Hall','798 Prescott St', 'Prescott', 'Georgia', 34689, 'Pheobeh@ksu.edu', '8796564434','18/12/1983','Waiter');

Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_JA08','Jane','Austin','990 Merlot St','Merlot','Georgia', 34689,'JaneA@ksu.edu', '7998334455','18/05/1983','Manager');
Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_BP07','Brad','Pitt','900 Handsome St','Suwanee','Georgia',34689,'Bradp@ksu.edu', '1122334455','04/05/1983','Manager');

Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_CC06','Courtney','Cox','897 Perk St','Central','Georgia',18591,'Coutneyc@ksu.edu', '7465546452','06/11/1985','Manager');

Insert into Employee(Employee_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone, DOB, Role)values('E_KW05','Kayne','West','123 Lemon St','Peachtree','Georgia',15671,'Kaynew@ksu.edu', '7897897890','12/05/1975','Manager')



Staff Table

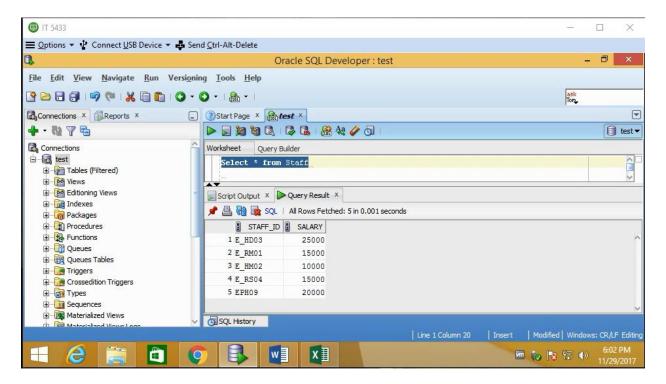
Insert into Staff (Staff_ID, Salary) values ('E_HD03', 25000);

Insert into Staff (Staff_ID, Salary) values ('E_RM01', 15000);

Insert into Staff (Staff_ID, Salary) values ('E_HM02', 10000);

Insert into Staff (Staff_ID, Salary) values ('E_RS04', 15000);

Insert into Staff (Staff_ID, Salary) values ('E_PH09', 20000);



Manager Table

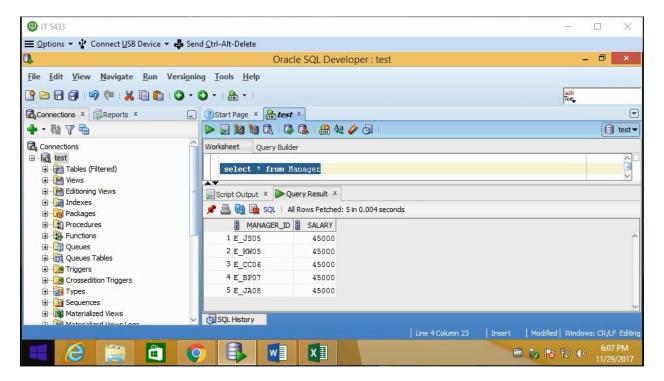
Insert into Manager (Manager_ID, Salary) values ('E_JS05', 40000);

Insert into Manager (Manager_ID, Salary) values ('E_KW05', 45000);

Insert into Manager (Manager_ID, Salary) values ('E_CC06', 50000);

Insert into Manager (Manager_ID, Salary) values ('E_BP07', 55000);

Insert into Manager (Manager_ID, Salary) values ('E_JA08', 60000);



Supply Detail Table

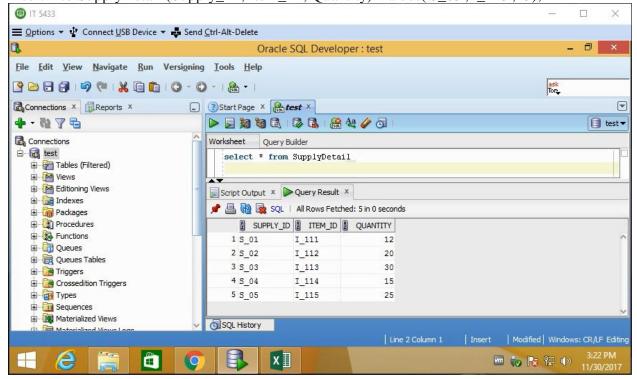
Insert into SupplyDetail (Supply_ID, Item_ID, Quantity) Values('S_01','I_111',12);

Insert into SupplyDetail (Supply_ID, Item_ID, Quantity) Values('S_02','I_112',20);

Insert into SupplyDetail (Supply_ID, Item_ID, Quantity) Values('S_03','I_113',30);

Insert into SupplyDetail (Supply_ID, Item_ID, Quantity) Values('S_04','I_114',15);

Insert into SupplyDetail (Supply_ID, Item_ID, Quantity) Values('S_05','I_115',25);



Item Table

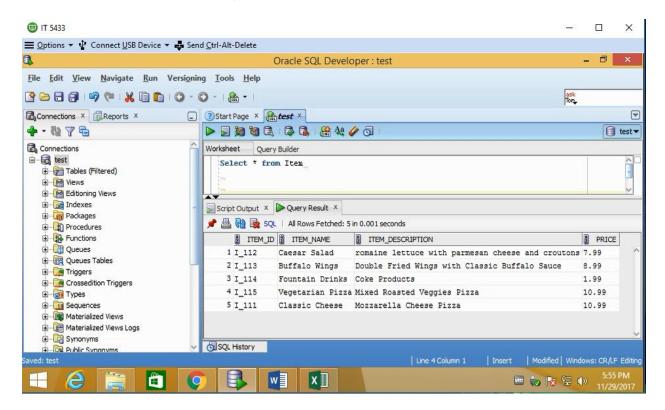
Insert into Item (Item_ID, Item_Name, Item_Description, Price) Values ('I_112','Caesar Salad', 'romaine lettuce with parmesan cheese and croutons','7.99');

Insert into Item (Item_ID, Item_Name, Item_Description, Price) Values ('I_113','Buffalo Wings', 'Double Fried Wings with Classic Buffalo Sauce','8.99');

Insert into Item (Item_ID, Item_ Name, Item_Description, Price) Values ('I_114','Fountain Drinks', 'Coke Products','1.99');

Insert into Item (Item_ID, Item_Name, Item_Description, Price) Values ('I_115','Vegetarian Pizza', 'Mixed Roasted Veggies Pizza','10.99');

Insert into Item (Item_ID, Item_Name, Item_Description, Price) Values ('I_111','Classic Cheese', 'Mozzarella Cheese Pizza','10.99');



Supply Table

Insert into Supply (Supply_ID, Supply_Name, StockLow, Perishable) Values ('S_05','Flour','No','Yes');

Insert into Supply (Supply_ID, Supply_Name, StockLow, Perishable) Values ('S_03','Pizza Boxes', 'No', 'No');

Insert into Supply (Supply_ID, Supply_Name, StockLow, Perishable) Values ('S_02','Cutlery','Yes','No');

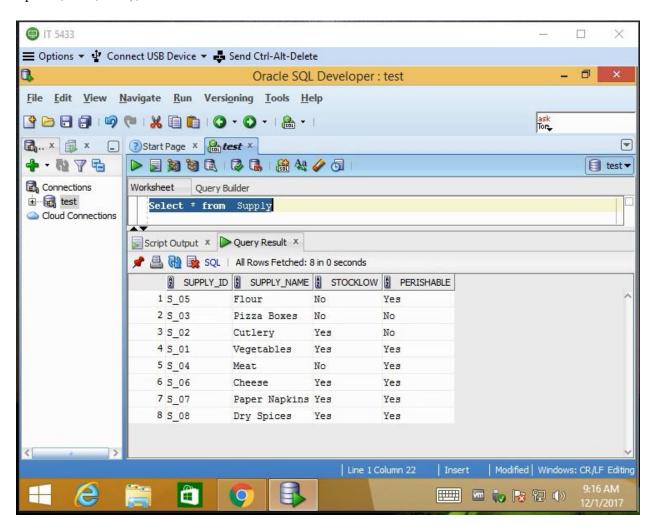
Insert into Supply (Supply_ID, Supply_Name, StockLow, Perishable) Values ('S_01','Vegetables','Yes','Yes');

Insert into Supply (Supply_ID, Supply_Name, StockLow, Perishable) Values ('S_04','Meat','No','Yes');

Insert into Supply (Supply_ID, Supply_Name, StockLow, Perishable) Values ('S_06','Cheese','Yes','Yes');

Insert into Supply (Supply_ID, Supply_Name, StockLow, Perishable) Values ('S_07','Paper Napkins', 'Yes', 'Yes');

Insert into Supply (Supply_ID, Supply_Name, StockLow, Perishable) Values ('S_08','Dry Spices','Yes','Yes');



Vendor Table

Insert into Vendor (Vendor_ID, Vendor_Name, Street, City, State, zip, Email_ID, Phone, info) values ('V_05','City Discount','587 Friends St', 'Jacksonville', 'Georgia', 66666, Friends@yum.com', 4564564567, 'Cleaning Supplies');

Insert into Vendor (Vendor_ID, Vendor_Name, Street, City, State, zip, Email_ID, Phone, info) values ('V_04', 'Kitchify','457 Nice St','Niceston','Georgia',22222,'

<u>Kitch@yum.com'</u>,4564564567,'Produce Vendor');

Insert into Vendor (Vendor_ID, Vendor_Name, Street, City, State, zip, Email_ID, Phone, info) values ('V_02', 'Angel Soft','123 Angel St','Angel','Georgia',55555,'Angel@yum.com', 2342342345,'Cultery Vendor');

Insert into Vendor (Vendor_ID, Vendor_Name, Street, City, State, zip, Email_ID, Phone, info) values ('V_01', 'Sysco','458 Tide St','Atlanta','Georgia',99999,'Sysco@yum.com',1231231234,'Meat Vendor');

Insert into Vendor (Vendor_ID, Vendor_Name, Street, City, State, zip, Email_ID, Phone, info) values ('V_03', 'B and G Restaurant Supply','789 Holly St','Hover','Georgia',11111,'BG@yum.com',1231231234,'Kitchen Supplies');

Purchase Order Table

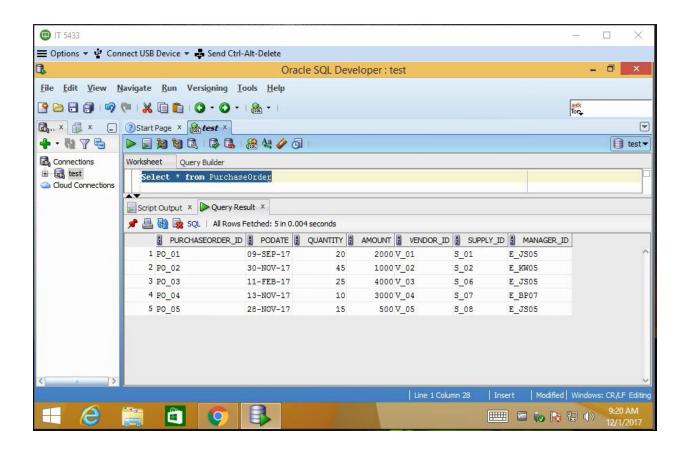
Insert into PurchaseOrder (PurchaseOrder_ID, PODate, Quantity, Amount, Vendor_ID, Supply_ID, Manager_ID) Values ('PO_01', (to_date('9/9/2017','DD/MM/YYYY')), 20, '2000.00', 'V_01','S_01','E_JS05');

Insert into PurchaseOrder (PurchaseOrder_ID, PODate, Quantity, Amount, Vendor_ID, Supply_ID, Manager_ID) Values ('PO_02', (to_date('30/11/2017','DD/MM/YYYY')),45,'1000.00', 'V_02','S_02','E_KW05');

Insert into PurchaseOrder (PurchaseOrder_ID, PODate, Quantity, Amount, Vendor_ID, Supply_ID, Manager_ID) Values ('PO_03', (to_date('11/02/2017','DD/MM/YYYY')),25,'4000.00', 'V_03','S_06','E_JS05');

Insert into PurchaseOrder (PurchaseOrder_ID, PODate, Quantity, Amount, Vendor_ID, Supply_ID, Manager_ID) Values ('PO_04', (to_date('13/11/2017','DD/MM/YYYY')),10,'3000.00', 'V_04','S_07','E_BP07');

Insert into PurchaseOrder (PurchaseOrder_ID, PODate, Quantity, Amount, Vendor_ID, Supply_ID, Manager_ID) Values ('PO_05', (to_date('28/11/2017','DD/MM/YYYY')),15,'500.00', 'V_05','S_08','E_JS05');

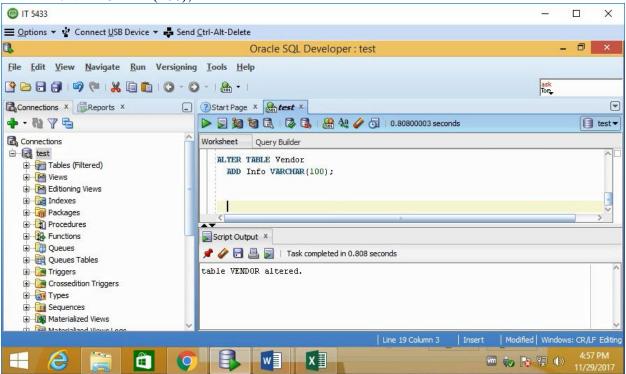


3.3 Queries

Alter Query

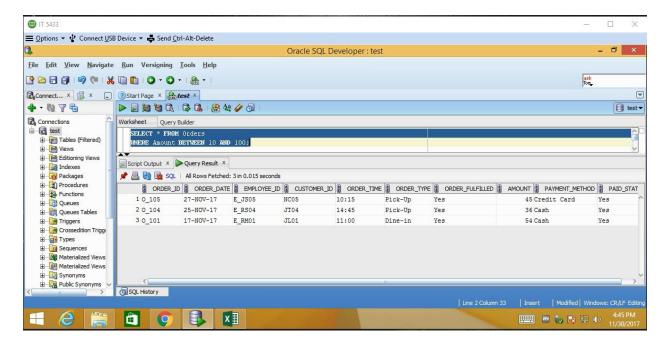
ALTER TABLE Vendor

ADD Info VARCHAR (100);



Between Query

SELECT * FROM Orders WHERE Amount BETWEEN 10 AND 100;

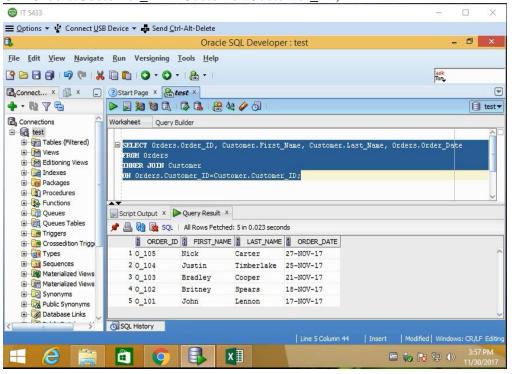


Inner Join Query

SELECT Orders. Order_ID, Customer.First_Name, Customer.Last_Name, Orders.Order_Date From Orders

INNER JOIN Customer

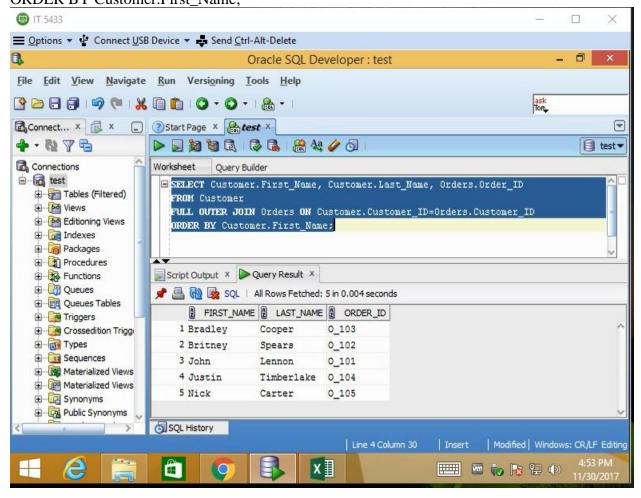
ON Orders.Customer_ID = Customer.Customer_ID;



Full Outer Join Query

SELECT Customer.First_Name, Customer.Last_Name, Orders.Order_ID FROM Customer

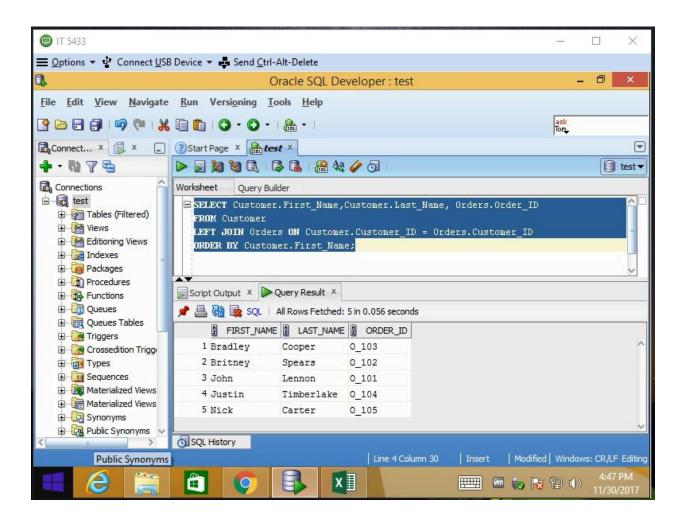
FULL OUTER JOIN Orders ON Customer.Customer_ID = Orders.Customer_ID ORDER BY Customer.First_Name;



Left Join Query

SELECT Customer.First_Name, Customer.Last_Name, Orders.Order_ID FROM Customer

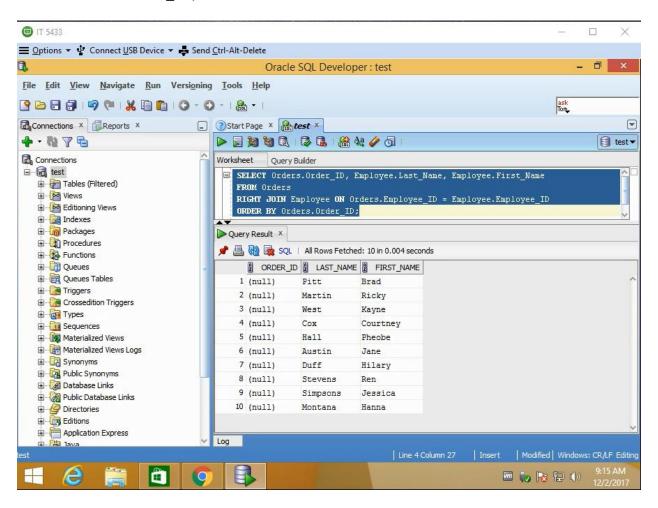
LEFT JOIN Orders ON Customer.Customer_ID = Orders.Customer_ID ORDER BY Customer.First_Name;



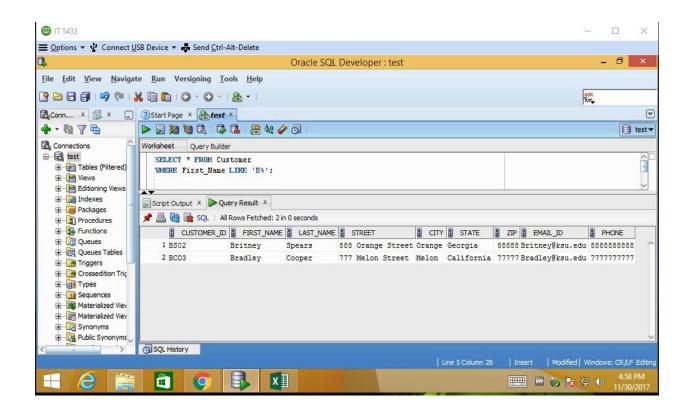
Right Join Query

SELECT Orders.Order_ID, Employee.Last_Name, Employee.First_Name FROM Orders

RIGHT JOIN Employee ON Orders.Employee_ID = Employee. Employee_ID ORDER BY Orders.Order_ID;

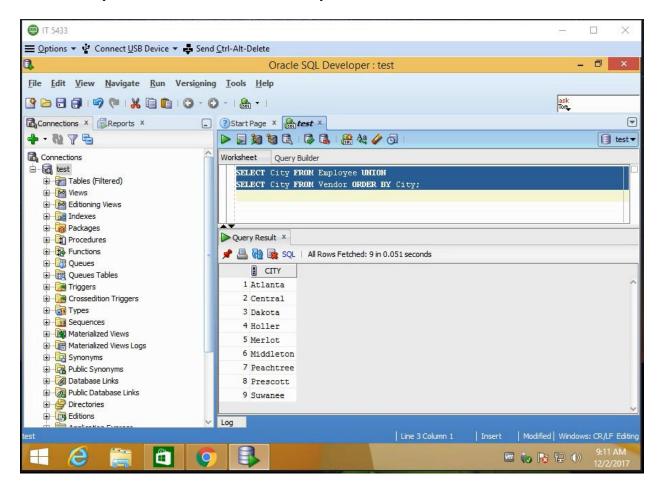


<u>Like Query</u> SELECT * FROM Customer WHERE First Name LIKE 'B%';



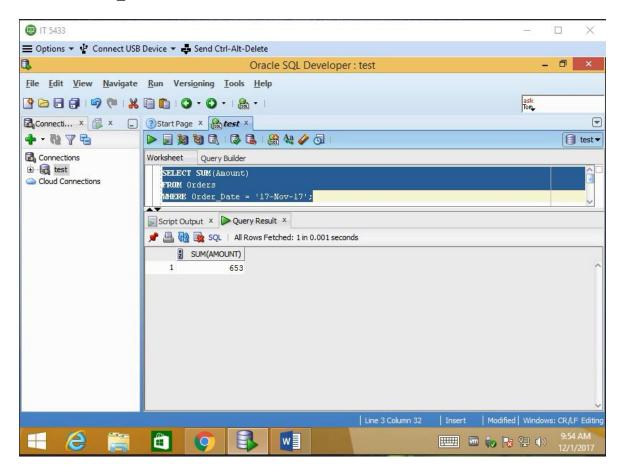
Union Query

SELECT City FROM Employee UNION SELECT City FROM Vendor ORDER BY City;



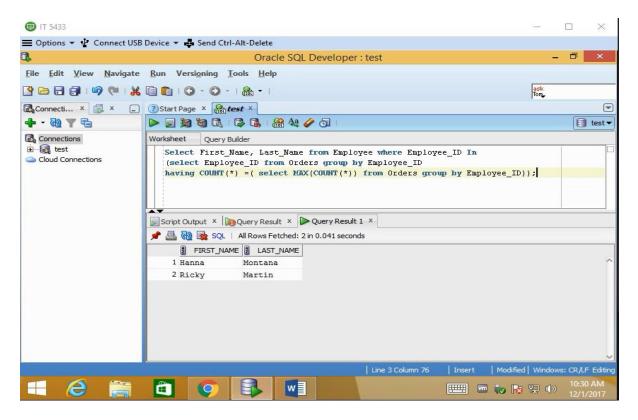
Total Sales for a day

SELECT SUM(Amount) FROM Orders WHERE Order_Date = '17-Nov-17';

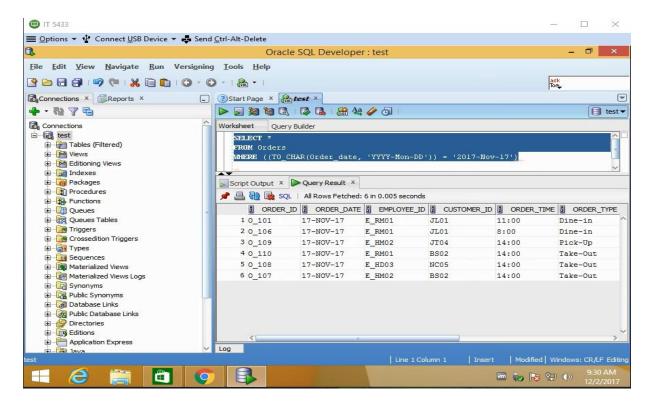


Employee with Maximum Orders

Select First_Name, Last_Name from Employee where Employee_ID In (Select Employee_ID from Orders group by Employee_ID having COUNT (*) = (select Max (COUNT (*)) from Orders group by Employee_ID));



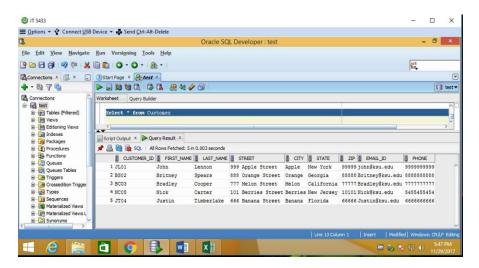
Orders for a Day Select * FROM Orders WHERE ((TO_CHAR(Order_Date, 'YYYY-Mon-DD')) = '2017-Nov-17');



3.4 Workflow Demonstrations

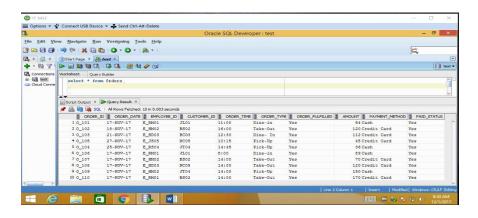
1. New customer comes to the restaurant

Insert into Customer (Customer_ID, First_Name, Last_Name, Street, City, State, Zip, Email_ID, Phone) values ('NC05','Nick','Carter','101 Berries Street','Berries','New Jersey',10101,'Nick@ksu.edu','5455455454');



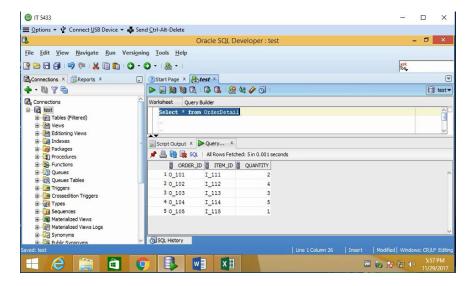
Places order

Insert into Orders (Order_ID, Order_Date, Employee_ID, Customer_ID, Order_Time, Order_Type, Order_Fulfilled, Amount, Payment_Method, Paid_Status) values ('O_108', (to_date('17/11/2017','DD/MM/YYYY')), 'E_HD03', 'NC05','14:00','Take-Out','Yes',120,'Credit Card','Yes');



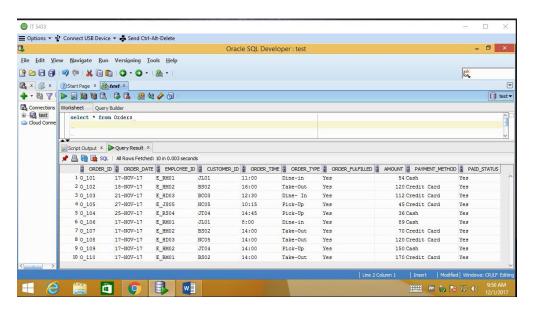
3. Staff employee places the order

Insert into OrderDetail (Order_ID, Item_ID, Quantity) values ('O_105', 'I_115',1);



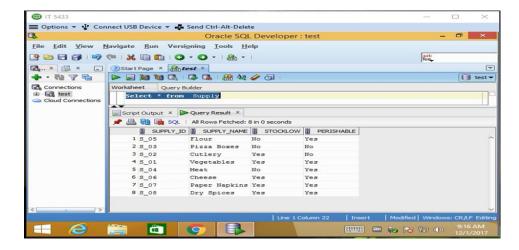
4. Updates the order to order fulfilled

UPDATE Orders SET Order_Fulfilled = 'Yes' WHERE Order_ID = '105;



5. Checks inventory and updates if supply table StockLow.

SELECT * FROM Supply



6. Manager places purchase order if stock is low in the supply table.

Insert into PurchaseOrder (PurchaseOrder_ID, PODate, Quantity, Amount, Vendor_ID, Supply_ID, Manager_ID) Values ('PO_05', (to_date('28/11/2017','DD/MM/YYYY')),15,'500.00', 'V_05','S_08','E_JS05');

