A close up of a logo

Description generated with very high confidence

**Module name: Advanced Databases**

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**Project Title: Software application to manage the business levels of Gusto Italian Restaurant.**

**1.Project description**

I’ve chosen to develop a subject based on my part time Job. I work in The Gusto Italian Restaurant in Clayton hotel Liffey valley. There are Also two other locations with the same approach and the same capacity in the restaurant and the carpark which are in Blanchardstown and Dundrum. All three restaurants charge the same for food/drinks and the carpark

Customers are charged per person based on what they order. The restaurant offers starters, main courses and has a large list of beverages that are available , customers can also order drinks to their table and it will be added onto the bill. The restaurant has several employees and they can differ in position (Chef/waiter/manager/barman). The waiter will take the order and the chefs will prepare the food and the exact quantity needed, the time an order Is taken at is noted as we don’t want customers to be waiting too long so we have a rough estimate on how long it will take. At the end of their meal the customers will pay for the beverages and food ordered.

The Restaurant has a capacity of 132 customers, so it is crucial to book around the holidays as It may be fully booked out. It is possible to book a table prior to arrival so customers can be guaranteed a table during busy service periods. They can ring the restaurant using the contact number provided and leave their name and contact number and a suitable table will be available upon arrival.

The restaurant has a carpark where customers can park their cars and they will be charged 4 Euros for the duration of their stay in the restaurant. The carpark has a capacity of 120 cars. The cars are completely insured under restaurant policy. Once a customer parks his/her car in the carpark the customers phone number is noted for emergency use.

Once a week the food and beverage manager require reports about the restaurant to monitor sales and profits. A minimum of 120 people needs to be served to break even and make profits. We’re encouraged to up sell items, so we can increase revenue. The project aims to develop a software application to manage the Business levels of the Gusto Italian restaurant.

**2.Entity Relationship diagram**

**![A close up of a map

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**3. Relational Modal**

**![A picture containing screenshot

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**4. SQL scripts**

**creation of table RestaurantLocations**

CurrentDb.Execute ("CREATE TABLE RestaurantLocations(RestaurantNo Text(20) PRIMARY KEY, Address Text(100), Name text(40), Capacity Short)")

**Creation of table Customer**

CurrentDb.Execute ("CREATE TABLE Customer(CustomerNo Text(20) PRIMARY KEY, RestaurantNo Text REFERENCES RestaurantLocations(RestaurantNo), CustomerName Text(20))")

**Creation of table Employee**

CurrentDb.Execute ("CREATE TABLE Employees(EmployeeID Counter PRIMARY KEY, FirstName Text(20), LastName Text(20), Position Text(10))")

**Creation of table carpark**

CurrentDb.Execute ("CREATE TABLE Carpark(CustomerNo Text(20) REFERENCES Customer(CustomerNo), SpacesLeft Short, Price Currency)")

**Creation of table orders**

CurrentDb.Execute ("CREATE TABLE Orders(OrderNo Counter PRIMARY KEY, Starter Short, Main Short)")

**Creation of table food**

CurrentDb.Execute ("CREATE TABLE Food(OrderNo Long REFERENCES Orders(OrderNo),Quantity Short, Cost Currency, OrderTime DateTime)")

**Insert data into RestaurantLocations**

CurrentDb.Execute ("INSERT INTO RestaurantLocations(RestaurantNo,Address,Name,Capacity) VALUES('(01) 625 8000','Fonthill Road, Liffey Valley, Dublin, D22 X4W6','Gusto Lucan',132) ")

CurrentDb.Execute ("INSERT INTO RestaurantLocations(RestaurantNo,Address,Name,Capacity) VALUES('(01) 555 8999','Blanchardstown','Gusto Blanch',132) ")

CurrentDb.Execute ("INSERT INTO RestaurantLocations(RestaurantNo,Address,Name,Capacity) VALUES('(01) 621 5676','Dundrum','Gusto Dundrum',132)")

**Insert data into Customer**

CurrentDb.Execute ("INSERT INTO Customer(CustomerNo,RestaurantNo,CustomerName) VALUES('0867654122','(01) 625 8000','Ryan')")

CurrentDb.Execute ("INSERT INTO Customer(CustomerNo,RestaurantNo,CustomerName) VALUES('0856789889','(01) 625 8000','Jamie')")

CurrentDb.Execute ("INSERT INTO Customer(CustomerNo,RestaurantNo,CustomerName) VALUES('0873332212','(01) 625 8000','Thomas')")

CurrentDb.Execute ("INSERT INTO Customer(CustomerNo,RestaurantNo,CustomerName) VALUES('0896724554','(01) 625 8000','Cian')")

CurrentDb.Execute ("INSERT INTO Customer(CustomerNo,RestaurantNo,CustomerName) VALUES('0865507887','(01) 625 8000','Conor')")

**Insert data into Employee**

CurrentDb.Execute ("INSERT INTO Employees(FirstName,LastName,Position) VALUES('Ajai','Singh','Waiter')")

CurrentDb.Execute ("INSERT INTO Employees(FirstName,LastName,Position) VALUES('Ross','Kilbane','Manager')")

CurrentDb.Execute ("INSERT INTO Employees(FirstName,LastName,Position) VALUES('Joey','Kelly','Chef')")

CurrentDb.Execute ("INSERT INTO Employees(FirstName,LastName,Position) VALUES('Mark','Smith','Manager')")

CurrentDb.Execute ("INSERT INTO Employees(FirstName,LastName,Position) VALUES('William','turner','Barman')")

**Insert Data into Carpark**

CurrentDb.Execute ("INSERT INTO Carpark(CustomerNo,SpacesLeft,Price) VALUES('0867654122',119,4.00)")

CurrentDb.Execute ("INSERT INTO Carpark(CustomerNo,SpacesLeft,Price) VALUES('0856789889',118,4.00)")

CurrentDb.Execute ("INSERT INTO Carpark(CustomerNo,SpacesLeft,Price) VALUES('0873332212',117,4.00)")

CurrentDb.Execute ("INSERT INTO Carpark(CustomerNo,SpacesLeft,Price) VALUES('0896724554',116,4.00)")

CurrentDb.Execute ("INSERT INTO Carpark(CustomerNo,SpacesLeft,Price) VALUES('0865507887',115,4.00)")

**Insert Data into Orders**

CurrentDb.Execute ("INSERT INTO Orders(Starter,Main) VALUES(1,1)")

CurrentDb.Execute ("INSERT INTO Orders(Starter,Main) VALUES(3,3)")

CurrentDb.Execute ("INSERT INTO Orders(Starter,Main) VALUES(5,5)")

CurrentDb.Execute ("INSERT INTO Orders(Starter,Main) VALUES(2,3)")

CurrentDb.Execute ("INSERT INTO Orders(Starter,Main) VALUES(1,3)")

**Insert into Food**

CurrentDb.Execute ("INSERT INTO Food(OrderNo,Quantity,Cost,OrderTime) VALUES('1',2,25.00,'19:00')")

CurrentDb.Execute ("INSERT INTO Food(OrderNo,Quantity,Cost,OrderTime) VALUES('2',6,75.00,'19:30')")

CurrentDb.Execute ("INSERT INTO Food (OrderNo,Quantity,Cost,OrderTime)VALUES('3',10,112.00,'20:45')")

CurrentDb.Execute ("INSERT INTO Food (OrderNo,Quantity,Cost,OrderTime)VALUES('4',5,55.00,'21:45')")

CurrentDb.Execute ("INSERT INTO Food (OrderNo,Quantity,Cost,OrderTime)VALUES('5',4,47.00,'21:00')")