Database ER diagram RestuarantTask
Oleksandr | December 12, 2023

CustomerDetails

CustomerDetailsID(PK)	int
Name	varchar
Surname	varchar
Email	varchar
TelNum	varchar
FirstLine	varchar
PostCode	varchar
City	varchar

Customer

CustomerID(PK)	int
CustomerDetails(FK)	int

DeliverInfo

DeliverID(PK)	int
DeliverTelNum	varchar
DeliverCarNumber	varchar

OrderTable

OrderID(PK)	int
OrderDate	DATETIME
CustomerID(FK)	int
RestaurantID(FK)	int
DeliverID(FK)	int

Items/ForOrderTable

OrderID(FK)(PK)	int
ItemID(FK)(PK)	int
Adjustments	varchar
ItemQuantity	int

Restaurant

RestaurantID(PK)	int
RestaurantName	varchar
RestaurantTelNum	varchar
RestaurantEmailAddress	varchar
RestaurantDescription	varchar

RestaurantAddress

RestaurantAddressID(FK)(PK)	int
RestaurantID(FK)(PK)	int

AddressTable

RestaurantAddressID(PK)	int
FirstLine	varchar
Postcode	varchar
City	varchar
County	varchar
Country	varchar

ItemCategory

ItemCategoryID(PK)	int
ItemType	varchar
ItemCategory	varchar

Item

ItemID(PK)	int
ItemName	varchar
ItemDescription	varchar
ItemCategoryID(FK)	int
ItemPrice	float
Vegan	bit
Vegetarian	bit
GlutenFree	bit
ContainsNuts	bit
SupplierID(FK)	int

Supplier

SupplierID(PK)	int
SupplierName	varchar
SupplierTelNum	varchar

RestaurantRating

ReviewID(PK)	int
CustomerID(FK)	int
Review	varchar
Rating	varchar
RestaurantID(FK)	int

```sql
DROP TABLE IF EXISTS RestaurantAddress;
DROP TABLE IF EXISTS RestaurantRating;
DROP TABLE IF EXISTS AddressTable;
DROP TABLE IF EXISTS ItemsForOrder;
DROP TABLE IF EXISTS Item;
DROP TABLE IF EXISTS ItemCategory;
DROP TABLE IF EXISTS OrderTable;
DROP TABLE IF EXISTS Customer;
DROP TABLE IF EXISTS CustomerDetails;
```

```sql
DROP         TABLE         IF         EXISTS         Restaurant;
DROP         TABLE         IF         EXISTS         DeliverInfo;
DROP         TABLE         IF         EXISTS         Supplier;

CREATE                TABLE                Supplier                (
  SupplierID                         INT      NOT      NULL      ,
  SupplierName              VARCHAR(255)      NOT      NULL,
  SupplierTelNum      VARCHAR(255)         NOT         NULL,
  CONSTRAINT      PK_Supplier_SupplierID      PRIMARY      KEY
(SupplierID)
)

CREATE             TABLE             DeliverInfo             (
  DeliverID                         INT    NOT    NULL    ,
  DeliverTelNum                     VARCHAR(255)       ,
  DeliverCarNumber                  VARCHAR(15)        ,
  CONSTRAINT      PK_DeliverInfo_DeliverID      PRIMARY      KEY
(DeliverID)
)

CREATE              TABLE              Restaurant              (
  RestaurantID                       INT    NOT    NULL    ,
  RestaurantName                     VARCHAR(255)        ,
  RestaurantTelNum                    VARCHAR(20),
  RestaurantEmail                     VARCHAR(255),
  RestaurantDescription               VARCHAR(255),
  CONSTRAINT   PK_Restaurant   PRIMARY   KEY   (RestaurantID)
)

CREATE             TABLE             CustomerDetails             (
  CustomerDetailsID            INT      NOT      NULL      ,
  Name                               VARCHAR(255)       ,
  Surname                            VARCHAR(255)       ,
  Email                              VARCHAR(255)       ,
  TelNum                             VARCHAR(20)        ,
  FirstLine                          VARCHAR(255)       ,
  PostCode                           VARCHAR(7)         ,
  City                               VARCHAR(255),
  CONSTRAINT  PK_CustomerDetails_CustomerDetailsID PRIMARY
KEY                              (CustomerDetailsID)
)

CREATE              TABLE              Customer              (
  CustomerID                          INT    NOT    NULL,
  CustomerDetailsID         INT      NOT      NULL      ,
  CONSTRAINT      PK_Customer_CustomerID      PRIMARY      KEY
(CustomerID),
```

```sql
  CONSTRAINT    FK_Customer_CustomerDetails    FOREIGN    KEY
(CustomerDetailsID)                         REFERENCES
CustomerDetails(CustomerDetailsID)
)

CREATE            TABLE            OrderTable            (
  OrderID                         INT    NOT    NULL    ,
  OrderDate                         DATETIME    ,
  CustomerID                     INT    NOT    NULL    ,
  RestaurantID                     INT    NOT    NULL    ,
  DeliverID                         INT    NOT    NULL    ,
  CONSTRAINT    PK_Order_OrderID    PRIMARY    KEY    (OrderID),
  CONSTRAINT    FK_Order_DeliverInfo_DeliverID    FOREIGN    KEY
(DeliverID)         REFERENCES         DeliverInfo(DeliverID),
  CONSTRAINT    FK_Order_Restaurant_RestaurantID    FOREIGN    KEY
(RestaurantID)         REFERENCES         Restaurant(RestaurantID),
  CONSTRAINT    FK_Order_Customer_CustomerID    FOREIGN    KEY
(CustomerID)         REFERENCES         Customer(CustomerID)
)

CREATE            TABLE            ItemCategory            (
  ItemCategoryID        INT        NOT        NULL        ,
  ItemType                         VARCHAR(255),
  ItemCategory                     VARCHAR(255),
  CONSTRAINT    PK_ItemCategory_ItemCategoryID    PRIMARY    KEY
(ItemCategoryID)
)

CREATE            TABLE            Item            (
  ItemID                         INT    NOT    NULL    ,
  ItemName                         VARCHAR(255)    ,
  ItemDescription                     VARCHAR(255),
  ItemCategoryID                 INT    NOT    NULL    ,
  ItemPrice                         FLOAT,
  Vegan                         BIT,
  Vegetarian                         BIT,
  GlutenFree                         BIT,
  ContainsNuts                         BIT,
  Allergies                         VARCHAR(255),
  SupplierID                     INT    NOT    NULL,
  CONSTRAINT    PK_Item_ItemID    PRIMARY    KEY    (ItemID),
  CONSTRAINT    FK_Item_ItemCategory_ItemCategoryID    FOREIGN
KEY         (ItemCategoryID)                 REFERENCES
ItemCategory(ItemCategoryID),
  CONSTRAINT    FK_Item_Supplier_SupplierID    FOREIGN    KEY
(SupplierID)         REFERENCES         Supplier(SupplierID)
)
```

```sql
CREATE                TABLE                ItemsForOrder                (
  OrderID                                  INT    NOT    NULL,
  ItemID                                   INT    NOT    NULL,
  Adjustments                              VARCHAR(255),
  ItemQuantity                                         INT,
  CONSTRAINT    PK_ItemsForOrder    PRIMARY    KEY    (OrderID,
ItemID),
  CONSTRAINT    FK_ItemsForOrder_OrderID    FOREIGN    KEY
(OrderID)            REFERENCES            OrderTable(OrderID),
  CONSTRAINT    FK_ItemsForOrder_Item_ItemID    FOREIGN    KEY
(ItemID)             REFERENCES              Item(ItemID)
)

CREATE                TABLE                AddressTable                (
  RestaurantAddressID                      INT    NOT    NULL,
  FirstLine                                VARCHAR(255),
  Postcode                                 VARCHAR(20),
  City                                     VARCHAR(255),
  County                                   VARCHAR(255),
  Country                                  VARCHAR(255),
  CONSTRAINT    PK_AddressTable_RestaurantAddressID    PRIMARY
KEY                                      (RestaurantAddressID)
)

CREATE                TABLE                RestaurantAddress                (
  RestaurantAddressID                      INT    NOT    NULL    ,
  RestaurantID                             INT    NOT    NULL    ,
  CONSTRAINT    PK_RestaurantAddress    PRIMARY    KEY
(RestaurantAddressID,RestaurantID),
  CONSTRAINT    FK_Restaurant_RestaurantID    FOREIGN    KEY
(RestaurantID)    REFERENCES    Restaurant(RestaurantID),
  CONSTRAINT FK_Restaurant_RestaurantAddressID FOREIGN KEY
(RestaurantAddressID)                            REFERENCES
AddressTable(RestaurantAddressID)

)

CREATE                TABLE                RestaurantRating                (
  ReviewID                                 INT    NOT    NULL,
  CustomerID                               INT    NOT    NULL,
  Review                                   VARCHAR(255),
  Rating                                   VARCHAR(255),
  RestaurantID                             INT    NOT    NULL,
  CONSTRAINT PK_RestaurantRating PRIMARY KEY (ReviewID),
  CONSTRAINT    FK_RestaurantRating_CustomerID    FOREIGN    KEY
(CustomerID)        REFERENCES        Customer(CustomerID),
```

```sql
    CONSTRAINT FK_RestaurantRating_RestaurantID FOREIGN KEY
(RestaurantID)     REFERENCES     Restaurant(RestaurantID)
)


INSERT     INTO     Supplier(SupplierID,     SupplierName,
SupplierTelNum)
VALUES(1,'Butchers','05112504305'),
     (2,'JonnyS          Foods','0124014010'),
     (3,'FreshVeg','01405140350')


INSERT     INTO     DeliverInfo(DeliverID,     DeliverTelNum,
DeliverCarNumber)
VALUES                         (1,'0216020645','JS00FJF'),
     (2,'010532010','KL12FYF'),
     (3,'013051033','FK98HGF')


INSERT     INTO     Restaurant(RestaurantID,     RestaurantName,
RestaurantTelNum,     RestaurantEmail,RestaurantDescription)
VALUES                 (1,'Tropical                 Island
Desserts','012443542234','Tropical.Islands@DragonFruit.co
m','Specialises  is  fruity  desserts  and  drinks'),
     (2,'Cheesy
Cheeseria','01513390232','Cheesy.Cheese@Rockfort.co.uk','
The     cheesiest     eating     place     in     town'),
     (3,'Carrot
Top','01513542341','Carrot.Top@Vegg.com','Specialist
vegetarian  restaurant  for  all  your  veggie  needs')


INSERT     INTO     CustomerDetails(CustomerDetailsID,     Name,
Surname,  Email,  TelNum,  FirstLine,  PostCode,  City)
VALUES
(1,'Eric','Wimp','BananaMad@Dandy.com','07845263374','29
Acacia          road','NH67PK','Nutty          town'),
     (2,'William
','Benn','MrBenn@fancydress.com','07326629551','52 Festive
road','LO89OP','London'),

(3,'Dougal','Dog','Dougal@Magic.com','05638384938','36
Magic          Garden','MG01HJ','Magic          Roundabout')
```

```sql
INSERT    INTO    Customer(CustomerID,    CustomerDetailsID)
VALUES                                              (1,1),
     (2,2),
     (3,3)


INSERT  INTO  OrderTable(OrderID,  OrderDate,  CustomerID,
RestaurantID,                                      DeliverID)
VALUES         (1,'2023-11-11        14:23:12',1,1,1),
     (2,'2023-11-11                  16:47:31',2,2,2),
     (3,'2023-11-11                  19:10:51',3,3,3)


INSERT          INTO         ItemCategory(ItemCategoryID,
ItemType,ItemCategory)
VALUES                     (1,'vegetarian/vegan','desert'),
     (2,'vegetarian/vegan            salad','main'),
     (3,'vegetarian              kebab','starter'),
     (4,'vegetarian              pizza','main'),
     (5,'','main'),
     (6,'','desert'),
     (7,'vegan          raw          food','main'),
     (8,'vegetarian       burger',        'main'),
     (9,'vegetarian,chefs        specials','main')


INSERT  INTO  Item(ItemID,  ItemName,  ItemDescription,
ItemCategoryID, ItemPrice, Vegan, Vegetarian, GlutenFree,
ContainsNuts,                                      SupplierID)
VALUES (1,'Banana Special','3 banana dessert covered in
vanilla            ice         cream',1,2.99,1,1,0,0,2),
     (2,'Three  fruit  salad','A  fruit  salad  containing
kiwis,bananas      and        melons',2,4.99,1,1,0,0,2),
     (3,'Fruit  and  Cheese  Skewer','Strawberries  and
grapes   interleaved   with   cheddar   cheese   on   a
stick',3,1.99,0,1,0,0,2),
     (4,'Cheesey Margherita Pizza','Three cheese pizza
with   a    tangy   tomato   sauce',4,5.99,0,1,0,0,1),
     (5,'Mozzarella  Lasagne','Super  strechy  mozzarella
lasagne',5,6.99,0,0,0,0,1),
     (6,'Cheese  board','Selection  of  cheeses  for  the
cheesiest    cheese    enthusiasts',6,3.99,0,0,0,0,1),
     (7,'Rabbit    Food    Special','Medley    of    raw
carrots,cabbage,and            turnips',7,4.99,1,0,0,0,3),
     (8,'Herbivorous   Burger','Plant   based   meat
alternative    with    lettuce,cheese,and    chunky
chips',8,5.99,0,1,0,0,3),
```

```sql
        (9,'Courgette frittata','Courgette, spring onions
and                 goat                cheese',9,4.99,0,1,0,0,3)


INSERT INTO  ItemsForOrder(OrderID, ItemID, Adjustments,
ItemQuantity)
VALUES                    (1,1,'extra              banana',1),
        (2,4,'',1),
        (2,6,'no                              cheddar',1),
        (3,7,'',1),
        (3,9,'extra                         onions',1)


INSERT INTO AddressTable (RestaurantAddressID, FirstLine,
Postcode,                       City,County,Country)
VALUES                    (1,'10                       Fruit
street','CH56HG','Durian','Cheshire','UK'),
        (2,'45                              Brie
avenue','MS78UK','Stilton','Merseyside','UK'),
        (3,'626                             Legume
road','1050','Brussels','','Belgium')


INSERT     INTO     RestaurantAddress(RestaurantAddressID,
RestaurantID)
VALUES                                          (1,1),
        (2,2),
        (3,3)


INSERT INTO RestaurantRating(ReviewID, CustomerID, Review,
Rating,                         RestaurantID)
VALUES     (1,1,'Good     Restaurant','5,0     stars',1),
        (2,1,'Food     was     cold','3,4     stars',2),
        (3,2,'Well       done!','5,0          stars',2),
        (4,3,'I did enjoy it','4,0',3)
```