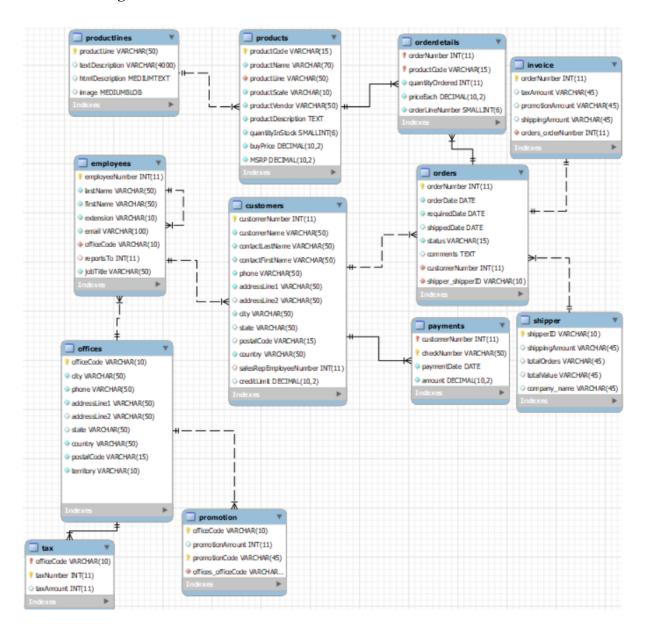
### **Assignment 5**

#### **Problem 3:**

#### **Overview:**

The database design is re-designed to include the tax amount, promotional discount and shipping charges of an order.

#### **Database Design:**



# Sample SQL to create the structures and populate tables (SQL File is also attached for your reference):

```
use rspatel;
/*My changes for Assignment 5 - Problem 3*/
create table tax('officeCode' VARCHAR(10) NOT NULL,
 'taxNumber' INT NOT NULL,
 'taxAmount' INT NULL,
 PRIMARY KEY ('officeCode', 'taxNumber'),
 CONSTRAINT 'officeCode'
  FOREIGN KEY ('officeCode')
  REFERENCES 'rspatel'.'offices' ('officeCode'));
create table promotion ('officeCode' VARCHAR(10) NOT NULL,
 'promotionAmount' INT NULL,
 'promotionCode' VARCHAR(45) NOT NULL,
 PRIMARY KEY ('officeCode', 'promotionCode')
);
create table invoice ('orderNumber' INT(11) NOT NULL,
 'totalValue' VARCHAR(45) NULL,
 'taxAmount' VARCHAR(45) default 0,
 'promotionAmount' VARCHAR(45) default 0,
 'shippingAmount' VARCHAR(45) default 0,
 'finalValue' VARCHAR(45) NULL,
 PRIMARY KEY ('orderNumber'));
create table shipper ('shipperID' VARCHAR(10) NOT NULL,
'company name' VARCHAR(45) NULL,
 'shippingAmount' VARCHAR(45) NULL,
 'totalOrders' VARCHAR(45) NULL,
 'totalValue' VARCHAR(45) NULL,
 PRIMARY KEY ('shipperID'));
alter table orders add column (shipperID VARCHAR(10));
insert into tax values(1, 10, 15);
insert into tax values(2, 11, 16);
```

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```
insert into tax values(3, 12, 17);
insert into tax values(4, 13, 18);
insert into tax values(5, 14, 19);
insert into tax values(6, 15, 20);
insert into tax values(7, 16, 21);
insert into promotion values(1, 250, 777);
insert into promotion values(2, 300, 888);
insert into promotion values(3, 400, 999);
insert into promotion values(4, 410, 111);
insert into promotion values(5, 420, 222);
insert into promotion values(6, 430, 333);
insert into promotion values(7, 450, 21);
insert into shipper values(1, 'ABC Company',20,3,1000);
insert into shipper values(2, 'XYZ Company',21,2,500);
insert into shipper values(3, 'LKM Company',22,1,100);
update orders set shipperID=1 where orderNumber=10100;
update orders set shipperID=1 where orderNumber=10101;
update orders set shipperID=1 where orderNumber=10102;
update orders set shipperID=2 where orderNumber=10103;
update orders set shipperID=2 where orderNumber=10104;
update orders set shipperID=3 where orderNumber=10105;
/*Populating all the order numbers in the invoice table*/
```

INSERT INTO invoice (orderNumber) SELECT orderNumber FROM orders;