***Bagels 1NF*Table

Description automatically generated**

**SQL:**

CREATE TABLE `Bagel\_1NF` (

`BagelOrderID` int(11) NOT NULL,

`BagelID` char(11) NOT NULL,

`OrderDate` datetime DEFAULT NULL,

`FirstName` char(20) DEFAULT NULL,

`LastName` char(20) DEFAULT NULL,

`Address1` varchar(30) DEFAULT NULL,

`Address2` varchar(30) DEFAULT NULL,

`City` char(15) DEFAULT NULL,

`STATE` char(2) DEFAULT NULL,

`ZIPCODE` int(5) DEFAULT NULL,

`MobilePhone` int(10) DEFAULT NULL,

`DeliveryFee` int(6) DEFAULT NULL,

`BagelPrice` int(6) DEFAULT NULL,

`BagelQuantity` int(10) DEFAULT NULL,

`SpecialNotes` char(100) DEFAULT NULL

)

Indexes for table `Bagel\_1NF`

ALTER TABLE `Bagel\_1NF`

ADD PRIMARY KEY (`BagelOrderID`);

-- AUTO\_INCREMENT for table `Bagel\_1NF`

ALTER TABLE `Bagel\_1NF`

MODIFY `BagelOrderID` int(11) NOT NULL AUTO\_INCREMENT;

***Bagels 2NFA picture containing funnel chart

Description automatically generated***

**SQL:**

CREATE TABLE `Bagels\_2NF` (

`BagelID` int(11) NOT NULL,

`BagelName` char(75) NOT NULL,

`Description` char(225) DEFAULT NULL,

`UnitPrice` decimal(2,2) DEFAULT NULL

-- Indexes for table `Bagels\_2NF`

ALTER TABLE `Bagels\_2NF`

ADD PRIMARY KEY (`BagelID`);

***Bagels 3NFTable

Description automatically generated***

**SQL:**

CREATE TABLE `Bagels\_3NF` (

`BagelID` char(3) NOT NULL,

`BagelName` char(50) NOT NULL,

`Description` char(50) NOT NULL,

`UnitPrice` decimal(3,2) DEFAULT NULL

)

INSERT INTO `Bagels\_3NF` (`BagelID`, `BagelName`, `Description`, `UnitPrice`) VALUES

('CB', 'Chip Off the Block Bagel', 'Chocolate Chip Bagel', '2.25'),

('EB', 'All the Stuff Bagel', 'Everything Bagel', '2.35'),

('MB', 'Keepin’ It Healthy Bagel', 'Multigrain Bagel', '2.00'),

('NB', 'Classic New York Bagel', 'New York Bagel', '1.75'),

('RB', 'Radically Raisin Bagel', 'Raisin Bagel', '2.00');

-- Indexes for table `Bagels\_3NF`

ALTER TABLE `Bagels\_3NF`

ADD PRIMARY KEY (`BagelID`);

***Customers 3NF***A picture containing table

Description automatically generated

**SQL:**

CREATE TABLE `Customers\_3NF` (

`CustomerID` int(11) NOT NULL,

`CustomerFirstName` char(50) DEFAULT NULL,

`CustomerLastName` char(50) DEFAULT NULL,

`CustomerStreetAddress1` char(50) DEFAULT NULL,

`CustomerStreetAddress2` char(50) DEFAULT NULL,

`CustomerCity` char(50) DEFAULT NULL,

`CustomerState` char(2) DEFAULT NULL,

`CustomerZip` char(6) DEFAULT NULL,

`CustomerHomePhone` char(10) DEFAULT NULL,

`CustomerMobilePhone` char(10) DEFAULT NULL,

`CustomerOtherPhone` char(10) DEFAULT NULL

-- Dumping data for table `Customers\_3NF`

INSERT INTO `Customers\_3NF` (`CustomerID`, `CustomerFirstName`, `CustomerLastName`, `CustomerStreetAddress1`, `CustomerStreetAddress2`, `CustomerCity`, `CustomerState`, `CustomerZip`, `CustomerHomePhone`, `CustomerMobilePhone`, `CustomerOtherPhone`) VALUES

(1, 'Joseph', 'Jason', '255 Blades Avenue', 'Condo #3', 'Orlando', 'FL', '34761', '4073335471', '4072334512', '4074741324');

-- Indexes for table `Customers\_3NF`

ALTER TABLE `Customers\_3NF`

ADD PRIMARY KEY (`CustomerID`);

-- AUTO\_INCREMENT for table `Customers\_3NF`

ALTER TABLE `Customers\_3NF`

MODIFY `CustomerID` int(11) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=2;

/Users/jsloth/Desktop/Projects/WGU/DATABASE/Customers/Customer\_3NF.png

***Line Items 2NF*Table

Description automatically generated**

**SQL:**

CREATE TABLE `LineItems\_2NF` (

`DonutID` int(11) NOT NULL,

`OrderID` int(11) NOT NULL,

`QUANTITY` int(11) NOT NULL

)

-- Indexes for table `LineItems\_2NF`

ALTER TABLE `LineItems\_2NF`

ADD PRIMARY KEY (`OrderID`,`DonutID`),

ADD KEY `FK\_LineItems\_2NF\_Donut` (`DonutID`);

-- Constraints for table `LineItems\_2NF`

ALTER TABLE `LineItems\_2NF`

ADD CONSTRAINT `FK\_LineItems\_2NF\_Donut` FOREIGN KEY (`DonutID`) REFERENCES `Donuts\_2NF` (`BagelID`),

ADD CONSTRAINT `FK\_LineItems\_2NF\_Order` FOREIGN KEY (`OrderID`) REFERENCES `Orders\_2NF` (`OrderID`);

***Line Items 3NF*Table

Description automatically generated with low confidence**

**SQL:**

CREATE TABLE `lineitems\_3nf` (

`OrderID` int(11) NOT NULL,

`BagelID` varchar(11) NOT NULL,

`QUANTITY` int(11) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

INSERT INTO `lineitems\_3nf` (`OrderID`, `BagelID`, `QUANTITY`) VALUES

(1, 'CB', 1),

(1, 'EB', 2),

(1, 'MB', 3),

(1, 'NB', 12),

(1, 'RB', 5);

-- Indexes for table `lineitems\_3nf`

ALTER TABLE `lineitems\_3nf`

ADD PRIMARY KEY (`BagelID`,`OrderID`),

ADD KEY `FK\_LineItems\_Order\_3NF` (`OrderID`);

-- Constraints for table `lineitems\_3nf`

ALTER TABLE `lineitems\_3nf`

ADD CONSTRAINT `FK\_LineItems\_Bagel\_3NF` FOREIGN KEY (`BagelID`) REFERENCES `Bagels\_3NF` (`BagelID`),

ADD CONSTRAINT `FK\_LineItems\_Order\_3NF` FOREIGN KEY (`OrderID`) REFERENCES `Orders\_3NF` (`OrderID`);

***Orders 2NF:*Table

Description automatically generated**

**SQL:**

CREATE TABLE `Orders\_2NF` (

`OrderID` int(11) NOT NULL,

`OrderDate` date NOT NULL,

`CustomerID` int(11) DEFAULT NULL,

`DonutID` int(11) NOT NULL,

`SpecialNotes` char(255) DEFAULT NULL,

`FirstName` char(50) DEFAULT NULL,

`LastName` char(50) DEFAULT NULL,

`StreetAddress1` char(50) DEFAULT NULL,

`StreetAddress2` char(50) DEFAULT NULL,

`City` char(50) DEFAULT NULL,

`State` char(2) DEFAULT NULL,

`Zip` char(6) DEFAULT NULL,

`HomePhone` char(10) DEFAULT NULL,

`MobilePhone` char(10) DEFAULT NULL,

`OtherPhone` char(10) DEFAULT NULL

-- Indexes for table `Orders\_2NF`

ALTER TABLE `Orders\_2NF`

ADD PRIMARY KEY (`OrderID`);

-- AUTO\_INCREMENT for table `Orders\_2NF`

ALTER TABLE `Orders\_2NF`

MODIFY `OrderID` int(11) NOT NULL AUTO\_INCREMENT;

***Orders 3NF***

**SQL:**

CREATE TABLE `Orders\_3NF` (

`OrderID` int(11) NOT NULL,

`OrderDate` date NOT NULL,

`CustomerID` int(11) DEFAULT NULL,

`SpecialHandlingNotes` char(255) DEFAULT NULL

-- Dumping data for table `Orders\_3NF`

INSERT INTO `Orders\_3NF` (`OrderID`, `OrderDate`, `CustomerID`, `SpecialHandlingNotes`) VALUES

(1, '2022-10-04', 1, 'Please include extra Cream Cheese.');

-- Indexes for table `Orders\_3NF`

ALTER TABLE `Orders\_3NF`

ADD PRIMARY KEY (`OrderID`),

ADD KEY `FK\_Orders\_Customers\_3NF` (`CustomerID`);

-- AUTO\_INCREMENT for table `Orders\_3NF`

ALTER TABLE `Orders\_3NF`

MODIFY `OrderID` int(11) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=1

-- Constraints for table `Orders\_3NF`

ALTER TABLE `Orders\_3NF`

ADD CONSTRAINT `FK\_Orders\_Customers\_3NF` FOREIGN KEY (`CustomerID`) REFERENCES `Customers\_3NF` (`CustomerID`);

***Join:***

***Graphical user interface

Description automatically generated***

***SQL:***

SELECT \*FROM lineitems\_3nf lINNER JOIN Bagels\_3NF b ON b.BagelID = l.BagelID

INNER JOIN Orders\_3NF o ON b.OrderId = l.OrderId

INNER JOIN Customers\_3NF c ON c.CustomerId = o.CustomerId

***Part B:***

***Coffee:Table

Description automatically generated***

***SQL:*** CREATE TABLE `Coffee` (

`coffee\_id` int(11) NOT NULL,

`shop\_id` int(11) NOT NULL,

`supplier\_id` int(11) NOT NULL,

`coffee\_name` varchar(30) DEFAULT NULL,

`price\_per\_pound` decimal(5,2) DEFAULT NULL

) ALTER TABLE `Coffee`

ADD PRIMARY KEY (`coffee\_id`),

ADD KEY `shop\_id` (`shop\_id`),

ADD KEY `supplier\_id` (`supplier\_id`);

ALTER TABLE `Coffee`

MODIFY `coffee\_id` int(11) NOT NULL AUTO\_INCREMENT;

ALTER TABLE `Coffee`

ADD CONSTRAINT `coffee\_ibfk\_1` FOREIGN KEY (`shop\_id`) REFERENCES `Coffee\_Shop` (`shop\_id`),

ADD CONSTRAINT `coffee\_ibfk\_2` FOREIGN KEY (`supplier\_id`) REFERENCES `Supplier` (`supplier\_id`);

***Coffee Shop:Graphical user interface, application

Description automatically generated***

***SQL:*** CREATE TABLE `Coffee\_Shop` (

`shop\_id` int(11) NOT NULL,

`shop\_name` varchar(50) DEFAULT NULL,

`city` varchar(50) DEFAULT NULL,

`STATE` varchar(2) DEFAULT NULL

) ALTER TABLE `Coffee\_Shop`

MODIFY `shop\_id` int(11) NOT NULL AUTO\_INCREMENT;

ALTER TABLE `Coffee\_Shop`

ADD PRIMARY KEY (`shop\_id`);

ALTER TABLE `Coffee\_Shop`

MODIFY `shop\_id` int(11) NOT NULL AUTO\_INCREMENT;

***Employee:Table

Description automatically generated***

***SQL:*** CREATE TABLE `Employee` (

`employee\_id` int(11) NOT NULL,

`first\_name` varchar(30) NOT NULL,

`last\_name` varchar(30) NOT NULL,

`hire\_date` date NOT NULL,

`job\_title` varchar(30) NOT NULL,

`shop\_id` int(11) NOT NULL

)

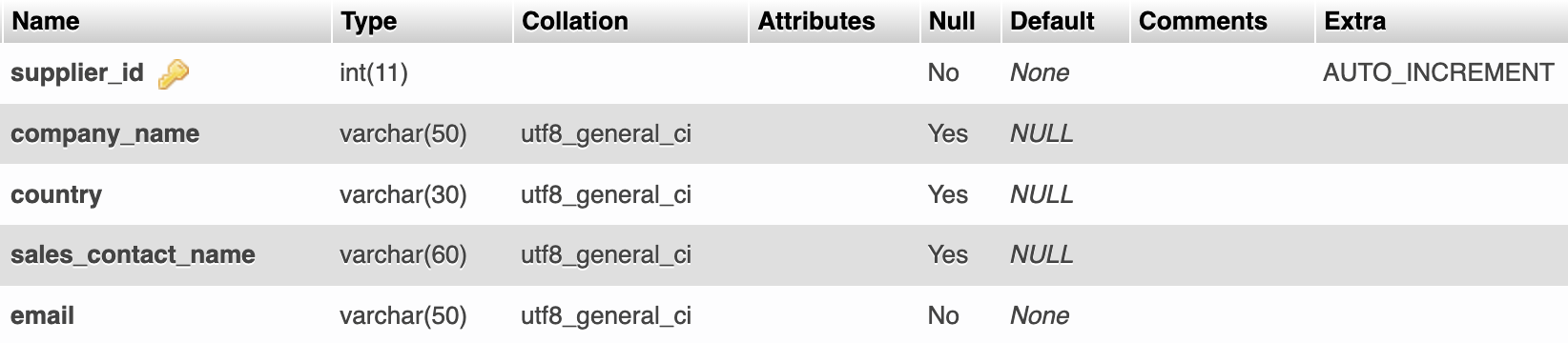
ALTER TABLE `Employee`

ADD PRIMARY KEY (`employee\_id`);

ALTER TABLE `Employee`

MODIFY `employee\_id` int(11) NOT NULL AUTO\_INCREMENT;

***Supplier:***

***  
SQL:*** CREATE TABLE `Supplier` (

`supplier\_id` int(11) NOT NULL,

`company\_name` varchar(50) DEFAULT NULL,

`country` varchar(30) DEFAULT NULL,

`sales\_contact\_name` varchar(60) DEFAULT NULL,

`email` varchar(50) NOT NULL

) ALTER TABLE `Supplier`

ADD PRIMARY KEY (`supplier\_id`);

ALTER TABLE `Supplier`

MODIFY `supplier\_id` int(11) NOT NULL AUTO\_INCREMENT;

***View:***

***SQL:***

CREATE VIEW Customer AS

SELECT CONCAT(CustomerFirstName, ' ', CustomerLastName) AS Name, CustomerStreetAddress1,

CustomerStreetAddress2, CustomerCity, CustomerState, CustomerZip, CustomerHomePhone, CustomerMobilePhone, CustomerOtherPhone

FROM Customers\_3NF