OC Pizza

Order management application

Operational file

Version 1.0

Spencer Forrest

TABLE OF CONTENTS

1 - VERSIONS

Author	Date	Description	Version
Spencer Forrest	11/06/2019	Document creation	1.0

2 - INTRODUCTION

2.1 - Document purpose

This document provides the SQL script needed to create the data structure used in a MySQL database. Moreover, it contains another SQL script in order to create a dataset used to perform tests.

3 - SQL SCRIPTS

3.1 - Data structure

```
-- Script used for MariaDB and/or MySQL

DROP DATABASE IF EXISTS `oc_pizza`;
CREATE DATABASE `oc_pizza`;

USE oc_pizza;

CREATE TABLE `Client`(
clientId int NOT NULL AUTO_INCREMENT,
firstName varchar(255) NOT NULL,
lastName varchar(255) NOT NULL,
phone varchar(255) NOT NULL,
email varchar(255) NOT NULL,
password varchar(255) NOT NULL,
PRIMARY KEY (clientId)
) DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `OrderType`(
orderTypeId int NOT NULL AUTO_INCREMENT,
name varchar(255) NOT NULL,
PRIMARY KEY (orderTypeId)
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `PaymentType`(
paymentTypeId int NOT NULL AUTO_INCREMENT,
name varchar(255) NOT NULL,
PRIMARY KEY (paymentTypeId)
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `Status`(
statusId int NOT NULL AUTO_INCREMENT,
name varchar(255) NOT NULL,
PRIMARY KEY (statusId)
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `JobPosition`(
jobPositionId int NOT NULL AUTO_INCREMENT,
name varchar(255) NOT NULL,
PRIMARY KEY (jobPositionId)
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;
```

```
CREATE TABLE `Ingredient`(
ingredientId int NOT NULL AUTO_INCREMENT,
name varchar(255) NOT NULL,
PRIMARY KEY (ingredientId)
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `Pizza`(
pizzaId int NOT NULL AUTO_INCREMENT,
imageURL varchar(255) NOT NULL,
name varchar(255) NOT NULL,
description text NOT NULL,
recipe text NOT NULL,
price float NOT NULL,
PRIMARY KEY (pizzaId)
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `Location`(
locationId int NOT NULL AUTO_INCREMENT,
name varchar(255) NOT NULL,
address varchar(255) NOT NULL,
zipCode varchar(255) NOT NULL,
city varchar(255) NOT NULL,
phone varchar(255) NOT NULL,

PRIMARY KEY (locationId)
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `Address`(
addressId int NOT NULL AUTO_INCREMENT,
clientId int NOT NULL,
address varchar(255),
zipCode varchar(255) NOT NULL,
city varchar(255) NOT NULL,
isDefault boolean,
isDeleted boolean,

PRIMARY KEY (addressId),
INDEX(clientId),

FOREIGN KEY (clientId)
REFERENCES `Client`(clientId)
ON UPDATE RESTRICT ON DELETE RESTRICT
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `Transaction`(
transactionId int NOT NULL AUTO_INCREMENT,
```

```
paymentTypeId int NOT NULL,
eTransactionRef varchar(255),

PRIMARY KEY (transactionId),
INDEX(paymentTypeId),

FOREIGN KEY (paymentTypeId)
REFERENCES `PaymentType`(paymentTypeId)
ON UPDATE RESTRICT ON DELETE RESTRICT
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `Order`(
orderId int NOT NULL AUTO_INCREMENT,
clientId int NOT NULL,
transactionId int NOT NULL,
orderTypeId int NOT NULL,
locationId int NOT NULL,
addressId int NOT NULL,

PRIMARY KEY (orderId),
INDEX(clientId),
INDEX(transactionId),
INDEX(orderTypeId),
INDEX(locationId),
INDEX(addressId),

FOREIGN KEY (clientId)
REFERENCES `Client`(clientId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (transactionId)
REFERENCES `Transaction`(transactionId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (orderTypeId)
REFERENCES `OrderType`(orderTypeId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (locationId)
REFERENCES `Location`(locationId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (addressId)
REFERENCES `Address`(addressId)
ON UPDATE RESTRICT ON DELETE RESTRICT
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `Worker`(
workerId int NOT NULL AUTO_INCREMENT,
jobPositionId int NOT NULL,
locationId int NOT NULL,
```

```
firstName varchar(255) NOT NULL,
lastName varchar(255) NOT NULL,
phone varchar(255) NOT NULL,
email varchar(255) NOT NULL,
password varchar(255) NOT NULL,

PRIMARY KEY (workerId),
INDEX(jobPositionId),
INDEX(locationId),

FOREIGN KEY (jobPositionId)
REFERENCES `JobPosition`(jobPositionId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (locationId)
REFERENCES `Location`(locationId)
ON UPDATE RESTRICT ON DELETE RESTRICT
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `Stock`(
locationId int NOT NULL,
ingredientId int NOT NULL,
quantity int NOT NULL,

PRIMARY KEY (ingredientId, locationId),
INDEX(ingredientId),
INDEX(locationId),

FOREIGN KEY (ingredientId)
REFERENCES `Ingredient`(ingredientId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (locationId)
REFERENCES `Location`(locationId)
ON UPDATE RESTRICT ON DELETE RESTRICT
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `StatusUpdate`(
orderId int NOT NULL,
statusId int NOT NULL,
workerId int NOT NULL,
timeStamp datetime NOT NULL,

PRIMARY KEY (orderId, statusId, workerId),
INDEX(orderId),
INDEX(statusId),
INDEX(workerId),

FOREIGN KEY (orderId)
```

```
REFERENCES `Order`(orderId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (statusId)
REFERENCES `Status`(statusId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (workerId)
REFERENCES `Worker`(workerId)
ON UPDATE RESTRICT ON DELETE RESTRICT
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `OrderDetail`(
orderId int NOT NULL,
pizzaId int NOT NULL,
quantity int NOT NULL,

PRIMARY KEY (orderId, pizzaId),
INDEX(orderId),
INDEX(pizzaId),

FOREIGN KEY (orderId)
REFERENCES `Order`(orderId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (pizzaId)
REFERENCES `Pizza`(pizzaId)
ON UPDATE RESTRICT ON DELETE RESTRICT
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

CREATE TABLE `IngredientList`(
ingredientId int NOT NULL,
pizzaId int NOT NULL,
quantity int NOT NULL,

PRIMARY KEY (ingredientId, pizzaId),
INDEX(ingredientId),
INDEX(pizzaId),

FOREIGN KEY (ingredientId)
REFERENCES `Ingredient`(ingredientId)
ON UPDATE RESTRICT ON DELETE RESTRICT,
FOREIGN KEY (pizzaId)
REFERENCES `Pizza`(pizzaId)
ON UPDATE RESTRICT ON DELETE RESTRICT
)DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;
```

3.2 - Testing dataset

```
USE oc_pizza;

-- CLIENT

INSERT INTO `Client` (firstName, lastName, phone, email, password)
VALUES ('Tom', 'Johnson', '8083217098', 'tom@johnson.com', 'ef34sdg4sd5');

INSERT INTO `Client` (firstName, lastName, phone, email, password)
VALUES ('Diana', 'Swain', '8018081050', 'diana@perterson.com', 'adloqkei45jjdsl3ad');

-- ADDRESS

INSERT INTO `Address` (clientId, address, zipCode, city, isDefault, isDeleted)
VALUES (1, '36 trade street', '69006', 'lyon', true, false);

INSERT INTO `Address` (clientId, address, zipCode, city, isDefault, isDeleted)
VALUES (2, '10 main street', '69003', 'lyon', true, false);

INSERT INTO `Address` (clientId, address, zipCode, city, isDefault, isDeleted)
VALUES (1, '42 moana street', '7506', 'paris', false, true);

-- PAYMENT TYPE

INSERT INTO `PaymentType` (name)
VALUES ('credit card online');

INSERT INTO `PaymentType` (name)
VALUES ('cash on delivery');

INSERT INTO `PaymentType` (name)
VALUES ('credit card on delivery');

-- TRANSACTION

INSERT INTO `Transaction` (paymentTypeId, eTransactionRef)
VALUES (1, 'orq_1D40Oy2eZvKYlo2CD5wa6k56');

INSERT INTO `Transaction` (paymentTypeId)
VALUES (2);

INSERT INTO `Transaction` (paymentTypeId)
VALUES (3);
```

OC Pizza

```
-- LOCATION

INSERT INTO `Location` (name, address, zipCode, city, phone)
VALUES ('lyon 6e', '54 main street', '69006', 'lyon', '0607978890');

INSERT INTO `Location` (name, address, zipCode, city, phone)
VALUES ('lyon 3e', '54 john street', '69003', 'lyon', '0478976850');

-- ORDER TYPE

INSERT INTO `OrderType` (name)
VALUES ('online');

INSERT INTO `OrderType` (name)
VALUES ('by phone');

INSERT INTO `OrderType` (name)
VALUES ('at pizzeria');

-- ORDER

INSERT INTO `Order` (clientId, transactionId, orderTypeId, locationId, addressId)
VALUES (1, 1, 1, 1, 1);

INSERT INTO `Order` (clientId, transactionId, orderTypeId, locationId, addressId)
VALUES (2, 3, 2, 2, 2);

INSERT INTO `Order` (clientId, transactionId, orderTypeId, locationId, addressId)
VALUES (1, 2, 1, 1, 1);

-- STATUS

INSERT INTO `Status` (name)
VALUES ('received');

INSERT INTO `Status` (name)
VALUES ('processing');

INSERT INTO `Status` (name)
VALUES ('cooking');

INSERT INTO `Status` (name)
VALUES ('quality check');

INSERT INTO `Status` (name)
VALUES ('delivery');
```

```
INSERT INTO `Status` (name)
VALUES ('delivered');

INSERT INTO Status (name)
VALUES ('not delivered');

-- JOB POSITION

INSERT INTO `JobPosition` (name)
VALUES ('pizzaiolo');

INSERT INTO `JobPosition` (name)
VALUES ('delivery person');

INSERT INTO `JobPosition` (name)
VALUES ('manager');

-- INGREDIENT

INSERT INTO `Ingredient` (name)
VALUES ('tomato');

INSERT INTO `Ingredient` (name)
VALUES ('dough');

INSERT INTO `Ingredient` (name)
VALUES ('cheese');

INSERT INTO `Ingredient` (name)
VALUES ('pineapple');

INSERT INTO `Ingredient` (name)
VALUES ('pepperoni');

-- PIZZA

INSERT INTO `Pizza` (imageURL, name, description, recipe, price)
VALUES ('images/pizza/hawaiian', 'hawaiian', 'Good Hawaiian pizza with delicious pineapples.', 'Dough first.
Tomatoes next then cheese and finally pineapples.', 13.5);

INSERT INTO `Pizza` (imageURL, name, description, recipe, price)
VALUES ('images/pizza/pepperoni', 'pepperoni', 'Standard pepperoni pizza', 'Dough first. Tomatoes next
then cheese and finally pepperoni.',9.23);
```

OC Pizza

```
-- ORDER DETAIL

INSERT INTO `OrderDetail` (orderId, pizzaId, quantity)
VALUES (1, 1, 2);

INSERT INTO `OrderDetail` (orderId, pizzaId, quantity)
VALUES (1, 2, 1);

INSERT INTO `OrderDetail` (orderId, pizzaId, quantity)
VALUES (2, 1, 1);

INSERT INTO `OrderDetail` (orderId, pizzaId, quantity)
VALUES (2, 2, 2);

INSERT INTO `OrderDetail` (orderId, pizzaId, quantity)
VALUES (3, 2, 1);

-- INGREDIENT LIST

INSERT INTO `IngredientList` (pizzaId, ingredientId, quantity)
VALUES (1, 1, 1);

INSERT INTO `IngredientList` (pizzaId, ingredientId, quantity)
VALUES (1, 2, 1);

INSERT INTO `IngredientList` (pizzaId, ingredientId, quantity)
VALUES (1, 3, 1);

INSERT INTO `IngredientList` (pizzaId, ingredientId, quantity)
VALUES (1, 4, 1);

INSERT INTO `IngredientList` (pizzaId, ingredientId, quantity)
VALUES (2, 1, 1);

INSERT INTO `IngredientList` (pizzaId, ingredientId, quantity)
VALUES (2, 2, 1);

INSERT INTO `IngredientList` (pizzaId, ingredientId, quantity)
VALUES (2, 3, 1);

INSERT INTO `IngredientList` (pizzaId, ingredientId, quantity)
VALUES (2, 5, 1);
```

OC Pizza

```
-- STOCK

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (1, 1, 100);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (1, 2, 100);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (1, 3, 100);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (1, 4, 50);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (1, 5, 50);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (2, 1, 100);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (2, 2, 100);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (2, 3, 100);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (2, 4, 50);

INSERT INTO `Stock` (locationId, ingredientId, quantity)
VALUES (2, 5, 50);

-- WORKER

INSERT INTO `Worker` (jobPositionId, locationId, firstName, lastName, phone, email, password)
VALUES (1, 1, 'Arina', 'Smith', '0807070707', 'arina@pizza.com', 'ef34sdg4sd5');

INSERT INTO `Worker` (jobPositionId, locationId, firstName, lastName, phone, email, password)
VALUES (2, 1, 'Alicia', 'Green', '0806060606', 'alicia@pizza.com', 'kjdslajlkjdsai$54j');

INSERT INTO `Worker` (jobPositionId, locationId, firstName, lastName, phone, email, password)
VALUES (3, 1, 'Mandy', 'Foster', '0805050505', 'mandy@pizza.com', 'fda0f9das8f098dsaf');

INSERT INTO `Worker` (jobPositionId, locationId, firstName, lastName, phone, email, password)
VALUES (1, 2, 'Arina', 'Simpson', '0107070707', 'simpson@pizza.com', 'ef34sdg4sd5');

INSERT INTO `Worker` (jobPositionId, locationId, firstName, lastName, phone, email, password)
```

```
VALUES (2, 2, 'Alicia', 'Templeton', '0106060606', 'templeton@pizza.com', 'kjdslajlkjdsai$54j');

INSERT INTO `Worker` (jobPositionId, locationId, firstName, lastName, phone, email, password)
VALUES (3, 2, 'Peter', 'Lewis', '0105050505', 'lewis@pizza.com', 'fda0f9das8f098dsaf');

-- STATUS UPDATE

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (1, 1, 3, '2018-08-11 13:30:09');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (1, 2, 1, '2018-08-11 13:30:59');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (1, 3, 1, '2018-08-11 13:32:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (1, 4, 1, '2018-08-11 13:39:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (1, 5, 2, '2018-08-11 13:41:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (1, 7, 2, '2018-08-11 13:58:12');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (2, 1, 6, '2018-08-12 13:30:09');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (2, 2, 4, '2018-08-12 13:30:59');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (2, 3, 4, '2018-08-12 13:32:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (2, 4, 4, '2018-08-12 13:39:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (2, 5, 5, '2018-08-12 13:41:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (2, 6, 5, '2018-08-12 13:58:12');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (3, 1, 3, '2018-08-13 13:30:09');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
```

```
VALUES (3, 2, 1, '2018-08-13 13:30:59');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (3, 3, 1, '2018-08-13 13:32:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (3, 4, 1, '2018-08-13 13:39:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (3, 5, 2, '2018-08-13 13:41:00');

INSERT INTO `StatusUpdate` (orderId, statusId, workerId, timeStamp)
VALUES (3, 6, 2, '2018-08-13 13:58:12');
```