

# University of British Columbia, Vancouver

Department of Computer Science

## CPSC 304 Project Cover Page

**Milestone #:** 2

**Date:** Oct. 20, 2023

**Group Number:** 8

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

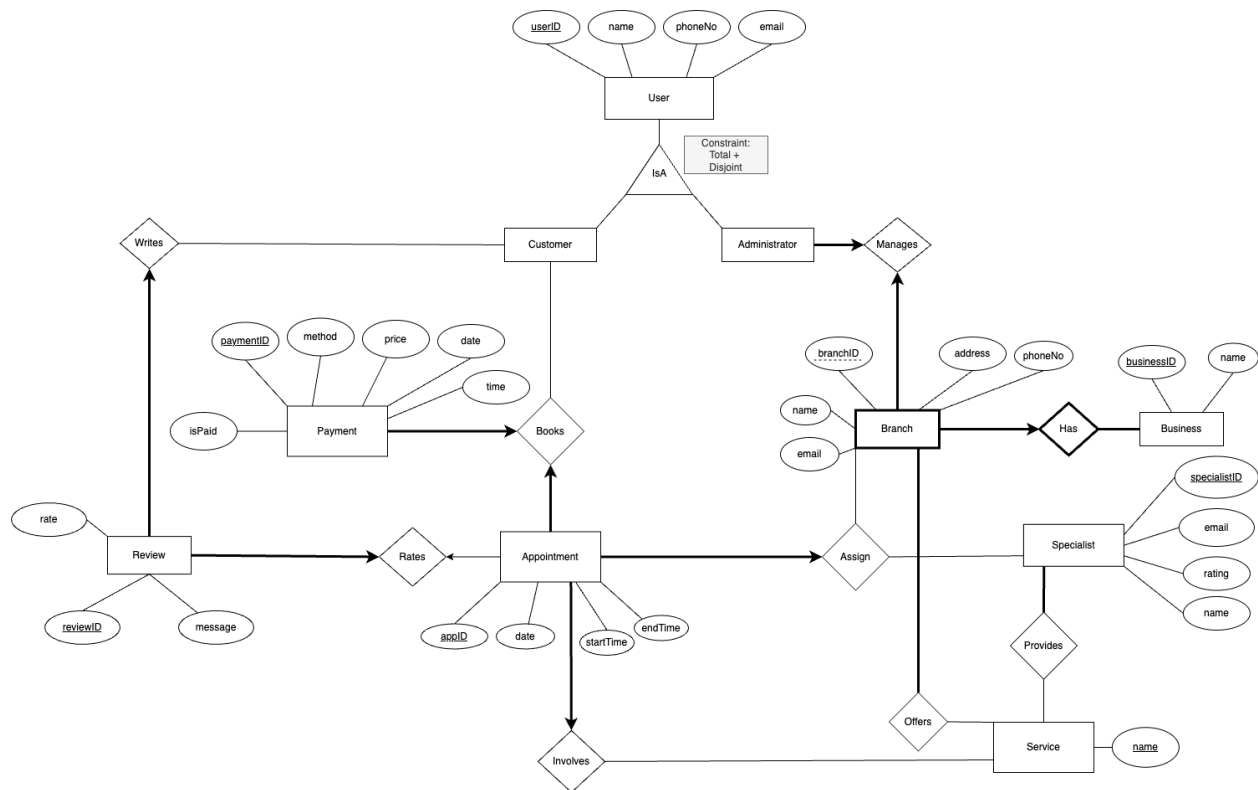
In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

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2) A Centralized Business Appointment Scheduling System. It is a platform with the ability to book, cancel and modify appointments; stores information about the customers, businesses, appointments and specialists, and all the listed entities above.

### 3) ER Diagram



Note: 1) appointment can have just one review (before several) because having multiple reviews from the same user for a single appointment could lead to redundancy and potential misuse of the review system 2) payment should be associated with customer and appointment (before: was no participation constraint) because it should not exist if appointment has not been scheduled by a customer.

Added time attribute for payment to create FD.

### 4) Schema:

Review(reviewID: INT, message: VARCHAR(255), rate: INT NOT NULL, **appID**(CK): INT NOT NULL UNIQUE, **userID**: INT NOT NULL)

Appointment(appID: INT, date: DATE NOT NULL, startTime: TIME NOT NULL, endTime: TIME NOT NULL, **serviceName**: VARCHAR(100) NOT NULL, **paymentID**(CK): INT NOT NULL)

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UNIQUE, **userID**: INT NOT NULL, **specialistID**: INT NOT NULL, **branchID**: INT NOT NULL, **businessID**: INT NOT NULL, **reviewID**(CK): INT UNIQUE)

Payment(paymentID: INT, isPaid: BOOLEAN NOT NULL, method: VARCHAR(50), price: DECIMAL(10, 2), date: DATE, time: TIME, **appID**(CK): INT NOT NULL UNIQUE, **userID**: INT NOT NULL)

Specialist(specialistID: INT, email(CK): VARCHAR(320) NOT NULL UNIQUE, rating: DECIMAL(2,1), name: VARCHAR(100) NOT NULL)

Provides(**specialistID**: INT, **serviceName**: VARCHAR(50)) *we will need assertions to cover this and will add them after we have been taught them*

Service(name: VARCHAR(100))

Business(businessID: INT, name: VARCHAR(100) NOT NULL)

Customer(userID: INT, name: VARCHAR (100) NOT NULL, phoneNo: VARCHAR(100), email(CK): VARCHAR(320) NOT NULL UNIQUE)

Administrator(userID: INT, name: VARCHAR (100) NOT NULL, phoneNo: VARCHAR (100) NOT NULL, email(CK): VARCHAR (320) NOT NULL UNIQUE, **branchID**: INT NOT NULL UNIQUE (in combo with business), **businessID**: INT NOT NULL UNIQUE (in combo with branch))

Branch(branchID: INT, **businessID**: INT NOT NULL, name: VARCHAR (100) NOT NULL, address: VARCHAR (100), phoneNo: VARCHAR (100) NOT NULL, email: VARCHAR(320), **userID**(CK): INT NOT NULL UNIQUE)

Offers(**branchID**: INT, **businessID**: INT, **serviceName**: (100)) *we will need assertions to cover this and will add them after we have been taught them*

### 5) Functional Dependencies

Review(reviewID: INT, message: VARCHAR(255), rate: INT NOT NULL, **appID**(CK): INT NOT NULL UNIQUE, **userID**: INT NOT NULL)

reviewID -> message, rate, appID, userID

appID -> userID, reviewID

userID, message -> appID

Appointment(appID: INT, date: DATE NOT NULL, startTime: TIME NOT NULL, endTime: TIME NOT NULL, **serviceName**: VARCHAR(100) NOT NULL, **paymentID**(CK): INT NOT NULL

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UNIQUE, **userID**: INT NOT NULL, **specialistID**: INT NOT NULL, **branchID**: INT NOT NULL, **businessID**: INT NOT NULL, **reviewID**(CK): INT UNIQUE)

applID -> date, startTime, endTime, serviceName, paymentID, userID, specialistID, branchID, businessID, reviewID

paymentID -> userID, applID

reviewID -> userID

specialistID, date, startTime -> branchID, businessID

businessID, specialistID, date, startTime -> userID

Payment(paymentID: INT, isPaid: BOOLEAN NOT NULL, method: VARCHAR(50), price: DECIMAL(10, 2) NOT NULL, date: DATE, time: TIME, **applID**(CK): INT NOT NULL UNIQUE, **userID**: INT NOT NULL)

paymentID, -> isPaid, method, price, date, time, applID, userID

applID -> paymentID, price

userID, date, time -> method

Specialist(specialistID: INT, email (CK): VARCHAR(320) NOT NULL UNIQUE, rating: DECIMAL(2,1), name: VARCHAR(100) NOT NULL)

specialistID -> email, rating, name

email -> specialistID

Provides(**specialistID**: INT, **serviceName**: VARCHAR(50)) *we will need assertions to cover this and will add them after we have been taught them*

Service(name: VARCHAR(100))

No FDs

Business(businessID: INT, name: VARCHAR(100) NOT NULL)

businessID -> name

Customer(userID: INT, name: VARCHAR (100) NOT NULL, phoneNo: VARCHAR(100), email(CK): VARCHAR(320) NOT NULL UNIQUE)

userID -> name, phoneNo, email

email -> userID

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Administrator(userID: INT, name: VARCHAR (100) NOT NULL, phoneNo: VARCHAR (100) NOT NULL, email(CK): VARCHAR (320) NOT NULL UNIQUE, **branchID**: INT NOT NULL UNIQUE (in combo with business), **businessID**: INT NOT NULL UNIQUE (in combo with branch))

userID -> Name, PhoneNo, email, branchID, businessID

email -> userID, branchID, businessID

branchID, businessID -> userID

Branch(branchID: INT, **businessID**: INT NOT NULL, name: VARCHAR (100) NOT NULL, address: VARCHAR (100), phoneNo: VARCHAR (100) NOT NULL, email: VARCHAR(320), **userID**(CK): INT NOT NULL UNIQUE) *do not use userID as primary key since from ER diagram userID is not direct attribute of the Branch entity*

branchID, businessID -> name, address, phoneNo, userID, email

userID -> branchID, businessID

Offers(**branchID**: INT NOT NULL, **businessID**: INT NOT NULL, **serviceName**: (100)) *we will need assertions to cover this and will add them after we have been taught them*

## 6) Normalization

Appointment(applID: INT, date: DATE NOT NULL, startTime: TIME NOT NULL, endTime: TIME NOT NULL, **serviceName**: VARCHAR(100) NOT NULL, **paymentID**(CK): INT NOT NULL UNIQUE, **userID**: INT NOT NULL, **specialistID**: INT NOT NULL, **branchID**: INT NOT NULL, **businessID**: INT NOT NULL, **reviewID**(CK): INT UNIQUE)

applID -> date, startTime, endTime, serviceName, paymentID, userID, specialistID, branchID, businessID, reviewID

paymentID -> userID, applID

reviewID -> userID, applID

specialistID, date, startTime -> branchID, businessID

businessID, specialistID, date, startTime -> userID

Find minimal cover:

Step 1	Step 2	Step 3
applID -> date	applID -> date	applID -> date
applID -> startTime	applID -> startTime	applID -> startTime

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applID -> endTime	applID -> endTime	applID -> endTime
applID -> serviceName	applID -> serviceName	applID -> serviceName
applID -> paymentID	applID -> paymentID	applID -> paymentID
applID -> userID	applID -> userID	X
applID -> specialistID	applID -> specialistID	applID -> specialistID
applID -> branchID, businessID	applID -> branchID, businessID	X
applID -> reviewID	applID -> reviewID	applID -> reviewID
paymentID -> userID	paymentID -> userID	X
paymentID -> applID	paymentID -> applID	paymentID -> applID
reviewID -> userID	reviewID -> userID	X
reviewID -> applID	reviewID -> applID	reviewID -> applID
specialistID, date, startTime -> branchID	specialistID, date, startTime ->branchID	specialistID, date, startTime ->branchID
specialistID, date, startTime -> businessID	specialistID, date, startTime -> businessID	specialistID, date, startTime -> businessID
businessID, specialistID, date, startTime -> userID	specialistID, date, startTime -> userID	specialistID, date, startTime -> userID

specialistID, date, startTime -> businessID is not in 3NF, decompose:

R<sub>1</sub>(specialistID, date, startTime, **businessID**), R<sub>2</sub>(applID, date, startTime, **specialistID**, endTime, **serviceName**, **paymentID**(CK), **reviewID**, **branchID**)

specialistID, date, startTime -> branchID is not in 3NF, decompose:

R<sub>3</sub>(specialistID, date, startTime, **branchID**), R<sub>4</sub>(applID, date, startTime, **specialistID**, endTime, **serviceName**, **paymentID**(CK), **reviewID**)

Final relationships: R<sub>13</sub>(**specialistID**: INT, date: DATE NOT NULL, startTime: TIME NOT NULL, **branchID**: INT NOT NULL, **businessID**: INT NOT NULL)(if branchID and businessID are separate we will not be able to reference Branch entity anymore because it has compound foreign key), R<sub>4</sub>(applID: INT, **date**: DATE NOT NULL, **startTime**: TIME NOT NULL, **specialistID**:

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INT NOT NULL, endTime: TIME NOT NULL, **serviceName**: VARCHAR(100) NOT NULL, **paymentID**(CK): INT NOT NULL UNIQUE, **reviewID**(CK): INT UNIQUE), R<sub>5</sub>(**specialistID**: INT, date: INT NOT NULL, startTime: TIME NOT NULL, **userID**: INT NOT NULL) (lost dependency)

Payment(paymentID: INT, isPaid: BOOLEAN NOT NULL, method: VARCHAR(50), price: DECIMAL(10, 2), date: DATE, time: TIME, **applID**(CK): INT NOT NULL UNIQUE, **userID**: INT NOT NULL)

paymentID, -> isPaid, method, price, date, time, applID, userID  
applID -> paymentID  
userID, date, time -> method

Find minimal cover

Step 1	Step 2	Step 3
paymentID -> isPaid	paymentID -> isPaid	paymentID -> isPaid
paymentID -> method	paymentID -> method	X
paymentID -> price	paymentID -> price	paymentID -> price
paymentID -> date	paymentID -> date	paymentID -> date
paymentID -> time	paymentID -> time	paymentID -> time
paymentID -> applID	paymentID -> applID	paymentID -> applID
paymentID -> userID	paymentID -> userID	paymentID -> userID
applID -> paymentID	applID -> paymentID	applID -> paymentID
userID, date, time -> method	userID, date, time -> method	userID, date, time -> method

userID, date, time -> method is not in BCNF, decompose:

R<sub>1</sub>(userID, date, time, method); R<sub>2</sub>(paymentID, isPaid, price, **date**, **time**, **userID**, **applID**)

Final result: R<sub>1</sub>(userID: INT NOT NULL, date: DATE, time: TIME, method: VARCHAR(50)), R<sub>2</sub>(paymentID: INT, isPaid: BOOLEAN NOT NULL, price: DECIMAL(10, 2), **date**: DATE, **time**: TIME, **userID**: INT NOT NULL, **applID**(CK): INT NOT NULL UNIQUE)

## 7) SQL DDL Statements

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Review(reviewID: INT, message: VARCHAR(255), rate: INT NOT NULL, **appID**(CK): INT NOT NULL UNIQUE, **userID**: INT NOT NULL)

```
CREATE TABLE Review(  
    reviewID INT PRIMARY KEY,  
    message VARCHAR(255),  
    rate INT NOT NULL,  
    userID INT NOT NULL,  
    appID INT UNIQUE NOT NULL,  
    FOREIGN KEY (userID) REFERENCES Customer(userID),  
    FOREIGN KEY (appID) REFERENCES Appointment(appID)  
)
```

SpecialistTimeslot\_Location(**specialistID**: INT, date: DATE NOT NULL, startTime: TIME NOT NULL, **branchID**: INT NOT NULL, **businessID**: INT NOT NULL),

Appointment(appID: INT, **date**: DATE NOT NULL, **specialistID**: INT NOT NULL, **startTime**: TIME NOT NULL, endTime: TIME NOT NULL, **serviceName**: VARCHAR(100) NOT NULL, **paymentID**(CK): INT NOT NULL UNIQUE, **reviewID**(CK): INT UNIQUE),

SpecialistTimeslot\_Customer(**specialistID**: INT, date: INT NOT NULL, startTime: TIME NOT NULL, **userID**: INT NOT NULL)

```
CREATE TABLE SpecialistTimeslot_Location(  
    specialistID INT,  
    date DATE,  
    startTime TIME,  
    branchID INT NOT NULL,  
    businessID INT NOT NULL,  
    PRIMARY KEY (specialistID, date, startTime),  
    FOREIGN KEY (specialistID) REFERENCES Specialist(specialistID)  
        ON DELETE CASCADE,  
    FOREIGN KEY (branchID, businessID) REFERENCES Branch(branchID, businessID)  
        ON DELETE CASCADE  
)
```

```
CREATE TABLE Appointment(  
    appID INT PRIMARY KEY,  
    date DATE NOT NULL,  
    specialistID INT,  
    startTime TIME NOT NULL,  
    endTime TIME NOT NULL,
```



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```
    serviceName VARCHAR(100) NOT NULL,  
    paymentID UNIQUE INT NOT NULL,  
    reviewID INT UNIQUE,  
    UNIQUE(specialistID, date, startTime),  
    FOREIGN KEY (specialistID) REFERENCES Specialist(userID)  
        ON DELETE CASCADE,  
    FOREIGN KEY (specialistID, date, startTime) REFERENCES  
        SpecialistTimeslot_Location(specialistID, date, startTime)  
        ON DELETE SET DEFAULT,  
    FOREIGN KEY (serviceName) REFERENCES Service(name)  
        ON DELETE SET DEFAULT,  
    FOREIGN KEY (paymentID) REFERENCES Payment(paymentID)  
        ON DELETE SET DEFAULT,  
    FOREIGN KEY (reviewID) REFERENCES Review(reviewID)  
)
```

```
CREATE TABLE SpecialistTimeslot_Customer(  
    specialistID INT,  
    date DATE,  
    startTime TIME,  
    userID INT NOT NULL,  
    PRIMARY KEY (specialistID, date, startTime),  
    FOREIGN KEY (specialistID) REFERENCES Specialist(specialistID)  
        ON DELETE CASCADE,  
    FOREIGN KEY (userID) REFERENCES Customer(userID)  
        ON DELETE CASCADE,  
)
```

UserPayment\_Method(userID: INT NOT NULL, date: DATE, time: TIME, method:  
VARCHAR(50)),

Payment(paymentID: INT, isPaid: BOOLEAN NOT NULL, price: DECIMAL(10, 2), **date**: DATE,  
**time**: TIME, **userID**: INT NOT NULL, **appID**(CK): INT NOT NULL UNIQUE)

```
CREATE TABLE UserPayment_Method(  
    userID INT,  
    date DATE,  
    time TIME,  
    method VARCHAR(50),  
    PRIMARY KEY (userID, date, time),  
    FOREIGN KEY (userID) REFERENCES Customer(userID)  
        ON DELETE SET DEFAULT
```

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)

```
CREATE TABLE Payment(  
    paymentID INT PRIMARY KEY,  
    isPaid BOOLEAN NOT NULL,  
    price DECIMAL(10, 2),  
    date DATE,  
    time TIME,  
    userID INT NOT NULL,  
    appID INT NOT NULL,  
    FOREIGN KEY (userID, date, time)  
        REFERENCES UserPayment_Method(userID, date, time)  
        ON DELETE SET DEFAULT,  
    FOREIGN KEY (userID) REFERENCES Customer(userID)  
        ON DELETE SET DEFAULT,  
    FOREIGN KEY (appID) REFERENCES Appointment(appID)  
        ON DELETE SET DEFAULT  
)
```

```
CREATE TABLE Specialist(  
    specialistID INT PRIMARY KEY,  
    email VARCHAR(320) NOT NULL UNIQUE,  
    rating DECIMAL(2,1),  
    name VARCHAR(100) NOT NULL  
)
```

Provides - *we will need assertions to cover this and will add them after we have been taught them*

```
CREATE TABLE Service(  
    name VARCHAR(100) PRIMARY KEY  
)
```

```
CREATE TABLE Business(  
    businessID INT PRIMARY KEY,  
    name VARCHAR(100) NOT NULL  
)
```

Customer(userID: INT, name: VARCHAR (100) NOT NULL, phoneNo: VARCHAR(100),  
email(CK): VARCHAR(320) NOT NULL UNIQUE)

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```
CREATE TABLE Customer(  
    userID INT,  
    name VARCHAR(100) NOT NULL,  
    phoneNo VARCHAR(100),  
    email VARCHAR(320) UNIQUE NOT NULL,  
    PRIMARY KEY(userID)  
)
```

Administrator(userID: INT, name: VARCHAR (100) NOT NULL, phoneNo: VARCHAR (100) NOT NULL, email(CK): VARCHAR (320) NOT NULL UNIQUE, **branchID**: INT NOT NULL UNIQUE (in combo with business), **businessID**: INT NOT NULL UNIQUE (in combo with branch))

```
CREATE TABLE Administrator(  
    userID INT,  
    name VARCHAR(100) NOT NULL,  
    phoneNo VARCHAR(100) NOT NULL,  
    email VARCHAR(320) UNIQUE NOT NULL,  
    branchID INT NOT NULL,  
    businessID INT NOT NULL,  
    UNIQUE (branchID, businessID),  
    PRIMARY KEY (userID),  
    FOREIGN KEY (branchID) REFERENCES  
        Branch(branchID)  
        ON DELETE CASCADE,  
    FOREIGN KEY (businessID) REFERENCES  
        Business(businessID)  
        ON DELETE CASCADE  
)
```

Branch(branchID: INT, **businessID**: INT NOT NULL, name: VARCHAR (100) NOT NULL, address: VARCHAR (100), phoneNo: VARCHAR (100) NOT NULL, email: VARCHAR(320), **userID**(CK): INT NOT NULL UNIQUE)

```
CREATE TABLE Branch(  
    branchID INT,  
    businessID INT,  
    name VARCHAR(100) NOT NULL,  
    address VARCHAR(100),  
    phoneNo VARCHAR(100) NOT NULL,  
    email: VARCHAR(320),  
    userID INT NOT NULL UNIQUE,  
    PRIMARY KEY (branchID, businessID),
```

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```
FOREIGN KEY (businessID) REFERENCES
    Business(businessID)
    ON DELETE CASCADE,
FOREIGN KEY (userID) REFERENCES
    Administrator(userID)
    ON DELETE SET DEFAULT
)
```

*Offers - we will need assertions to cover this and will add them after we have been taught them*

### 8. SQL Insert Statements

```
INSERT INTO Review (reviewID, message, rate, applID, userID)
VALUES
```

```
(1, "Awesome experience", 5, 1, 1),
(2, "Not awesome experience", 3, 2, 2),
(3, "Liked this salon", 4, 3, 1),
(4, "Will not come back", 2, 4, 4),
(5, "Not satisfied", 2, 5, 5)
```

```
INSERT INTO SpecialistTimeslot_Location(date, specialistID, startTime, branchID, businessID)
VALUES
```

```
('17/12/2023', 100, '13:30', 1823, 8888),
('29/09/2023', 101, '09:00', 9101, 1057),
('01/08/2023', 102, '11:30', 1234, 1234),
('01/08/2023', 103, '10:30', 5678, 5678),
('09/07/2023', 103, '11:30', 5678, 5678)
```

```
INSERT INTO Appointment (applID, date, specialistID, startTime, endTime, serviceName,
    paymentID, reviewID)
```

```
VALUES
```

```
(1, '17/12/2023', 100, '13:30', '15:30', 'Make-up', 1, 1),
(1, '29/09/2023', 101, '09:00', '10:00', 'Haircut', 2, 2),
(1, '01/08/2023', 102, '11:30', '13:00', 'Manicure', 3, 3),
(1, '01/08/2023', 103, '10:30', '11:15', 'Tattoo', 4, 4),
(1, '09/07/2023', 103, '11:30', '12:30', 'Tattoo', 5, 5)
```

```
INSERT INTO SpecialistTimeslot_Customer(date, specialistID, startTime, userID)
VALUES
```

```
('17/12/2023', 100, '13:30', 1),
('29/09/2023', 101, '09:00', 2),
```

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```
('01/08/2023', 102, '11:30', 1),  
( '01/08/2023', 103, '10:30', 4),  
( '09/07/2023', 103, '11:30', 5)
```

```
INSERT INTO UserPayment_Method(userID, date, time, method)  
VALUES
```

```
(1, '17/12/2023', '14:38', "Cash"),  
(2, '29/09/2023', '10:02', "Debit"),  
(1, '01/08/2023', '12:32', "Credit"),  
(4, '03/08/2023', '10:30', "E-Transfer"),  
(5, '11/07/2023', '14:11', "Credit")
```

```
INSERT INTO Payment(paymentID, isPaid, price, date, time, userID, applID)  
VALUES
```

```
(1, 1, 70.25, '17/12/2023', '13:30', 1, 1),  
(2, 1, 30.00, '29/09/2023', '09:00', 2, 2),  
(3, 1, 180.50, '01/08/2023', '11:30', 1, 3),  
(4, 0, 200.09, '03/08/2023', '10:30', 4, 4),  
(5, 1, 401.02, '11/07/2023', '11:30', 5, 5)
```

```
INSERT  
INTO Specialist (specialistID, email, rating, name)  
VALUES
```

```
(100, 'zariabruce@yahoo.com', 5.0, 'Zaria Bruce'),  
(101, 'ashlyn_fry@gmail.com', 3.5, 'Ashlyn Fry'),  
(102, 'kaydensanchez@hotmail.com', 4.6, 'Kayden Sanchez'),  
(103, 'cobylui@outlook.com', 2.7, 'Coby Liu'),  
(104, 'david_wang1@business.com', 1.5, 'David Wang')
```

Provides - *we will need assertions to cover this and will add them after we have been taught them*

```
INSERT  
INTO Service (name)  
VALUES
```

```
('Manicure'),  
( 'Tattoo'),  
( 'Physiotherapy'),
```

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('Haircut'),  
( 'Make-up')

INSERT

INTO Business (businessID, name)

VALUES

(1234, 'ACME Salon'),  
(5678, 'Inkwell Tattoo Shop'),  
(1057, 'The Barber Shop'),  
(9384, 'Smile Thai Wellness'),  
(8888, 'Sephora Mac Salon')

INSERT

INTO Customer (userID, name, phoneNo, email)

VALUES

(1, phillip chariot, 123-435-1239, 'philipchariot@gmail.com')  
(2, jared chinatown, 132-421-8123, 'jc@gmail.com')  
(3, alejandro mexico, 213-489-1293, 'am@gmail.com')  
(4, lipa dua, 213-423-4823, 'dualipa@gmail.com')  
(5, chess crackers, 123-483-9123, 'cc@gmail.com')

INSERT

INTO Administrator (userID, name, phoneNo, email, branchID, businessID)

VALUES

(1, james Doe, 111-111-1118, 'jamesdoe@hotmail.com', 1234, 1234)  
(2, james cameron, 111-111-5222, 'jamescameron@outlook.com,' 5678, 5678)  
(3, james cordon, 111-222-3353, 'james\_cordon@gmail.com', 9101, 1057)  
(4, james pepperoni , 222-333-6444, 'jamespepps@yahoo.com', 1, 9384)  
(5, reginold leopold the fifth, 555-666-2777, 'regleothe5@regleo.com', 1823, 8888)

INSERT

INTO Branch(branchID, businessID, name, address, phoneNo, email, adminID)

VALUES

(1234, 1234, 'East Vancouver ACME Salon', '215 Tolmie St', 123-456-7899,  
'Eastvanacme@gmail.com', 1)  
(5678, 5678, 'Inkwell oakville', '210 North Service Rd W', 101-112-1314,  
'oakville@inkwell.com', 2)  
(9101, 1057, 'The Barber Shop LLOYDmaster', '5612 44 St', 123-543-5673,  
'thebarbershop@gmail.com' , 3)  
(1, 9384, 'Smile Thai Kelowna', '1567 Pandosy St', 341-435-1235,  
'Smilethaikelowna@yahoo.com', 4)

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(1823, 8888, 'Sephora Bromont' '229 de Bromont Boul', 214-543-5673,  
'sephora@bromont.com', 5)

*Offers - we will need assertions to cover this and will add them after we have been taught them*