THE OUTFIT
SPORTS TRAINING FACILITY
DATABASE PROJECT
PROJECT REPORT

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1.Problem Description

1.1. Company Background

Kris, Huzefa, Devrath, three friends – Kris, a sports consultant; Huzefa, an investment banker; Devrath, a software engineer. All three united by their passion towards fitness wanted to start a sports functional facility. After pooling the required money and resources, they opened the first branch in December 2014 'The OutFit' in Dallas, TX. It is a sports training facility where its sole purpose is to make their clients fit and provide world-class training programs to the people.
Dallas has a population of approximately 11.5 million according to the Census data. The increase in awareness of fitness especially among the working class created a wide scope of business for the facility. The Outfit, being one of its kind sports facility it offers training regimes which works on Strength, Sports Conditioning, Agility, Flexibility, Power, Balance and Skills. This aspect of various forms of training is what makes them stand out from the other competitors. Having the best trainers and staff in business, the business boomed after the initial stages. This led to opening the next branch and so on. Now they have four branches across the city.
Initially they used a log and proceeded to maintaining an excel file to maintain information. As they expanded, with more number of branches, more clients, more services, dealing with such volume of information and data with these methods are no longer feasible and sufficient. This led to affecting their growth.

Current Database Issues:

- Time consuming and inefficient
- Large amount of maintenance is needed
- Majority of records initially were hand written which leads to inconsistency information
- Customer information, transaction information is unorganized and varies on paper and computer records.
- Expensive and impractical for the increasing number of clients and business.

Proposed Solution:

With the expansion of the facility, the existing spreadsheet business solution is out of date. A large amount of time is necessary to search for information and consistency update records with current information. So, we need an easy new database to be implemented that all his employees can be easily trained to diminish training costs. A simple database is suggested to facilitate the storage of information such as client details, training assigned. The layout and implementation of the database is explained in detail in the following sections.

Proposed Tables(Entities) for The Outfit database with their purpose:

1. Employee: This table will be used to store basic employee information like Name, Email, Address, Privileges, Specialty or Type, Salaries, Temporary or Permanent etc.

2. Customer: This table will be used to record customer details such as information like Name, Email, Contact, Address, Emergency contact, Phone No, Gender, Height, Weight, BMI and Health Condition

3. Service: This table will hold information about each service the facility provides (current and potential) such as ServiceID, ServiceName (Kind of training offered), Price.

4. Service Schedule: This table will hold information regarding schedule service like Service days, Start time and End time.

5. Contract: This table will be used to keep track of the what services a client is enrolled in, this will hold information like Start date, Expiration Date and Contract Info.

6. Transaction: This table will keep track of all the transactions taking place like Transaction Date, Payment Date and Offer Type.

7. Trainer: This table will be used to store trainer information like Name, Email, Phone, Address, Specialization or Certifications

Scope of Database

Currently Outfit uses unorganized Excel Spreadsheets that create more problems and inefficiency than solutions. With the implementation of the new database, these errors will be corrected. There are a total of seven tables in the new database. Detailed descriptions of each table are described below.

Employees Table

This table consists of all personal information pertaining to each individual employee employed at The Outfit. Each employee is identified by a unique number labeled as ID. Information ranging from their full name, email address, various phone numbers and address is included in this table.

File Name	Description	Data Type (Size)	Remarks
ID	Identify Individual Employee	INTEGER	Primary
Last Name	Employee's Last Name	VARCHAR (50)	Required
First Name	Employee's First Name	VARCHAR (50)	Required
E-mail Address	Employee's E-mail	VARCHAR (50)	Required
Job Title	Employee's Job Title	VARCHAR (50)	Required
Mobile Phone	Employee’s Mobile Phone	VARCHAR (255)	Required
Address	Employee's Address	VARCHAR (255)	Required
City	City of Employee's Address	VARCHAR (50)	Required
State/Province	State/Province of Employee's Address	VARCHAR (50)	Required
ZIP/Postal Code	ZIP/Postal Code of Employee's	INTEGER	Required

Customers Table

This table consists of customer information. Each customer is assigned and identified by a unique number labeled as ID. This table also contains personal information of the customer. This information ranges from their full name, current job, e-mail address, various phone numbers and their address.

File Name	Description	Data Type (Size)	Remarks
ID	Identify Individual Customer	INTEGER	Primary key
Last Name	Customer's Last Name	VARCHAR (50)	Required
First Name	Customer's First Name	VARCHAR (50)	Required
Job Title	Customer's Career Title	VARCHAR (50)	Not
E-mail Address	Customer's E-mail Address	VARCHAR (50)	Required
Home Phone	Customer's Home Phone Number	VARCHAR (255)	Required
Mobile Phone	Customer's Mobile Phone Number	VARCHAR (255)	Required
Fax Phone	Customer's Fax Phone Number	VARCHAR (255)	Required
Address	Customer's Address	VARCHAR (255)	Required
City	City of Customer's Address	VARCHAR (50)	Required
State/Province	State/Province of Customer's Address	VARCHAR (50)	Required
ZIP/Postal Code	ZIP/Postal Code of Customer's	INTEGER	Required
Special Condition	Special Health Condition	VARCHAR (255)	Optional
Gender	Gender of Customer	VARCHAR	Required
Height	Height of Customer	NUMBER (10,2)	Required
Weight	Weight of Customer	NUMBER (10,2)	Required
BMI	BMI of Customer	NUMBER (10,2)	Required

Trainers Table

This table consists of all personal information pertaining to each individual Trainer employed at The Outfit. Each employee is identified by a unique number labeled as ID. Information ranging from their full name, email address, various phone numbers and address is included in this table.

File Name	Description	Data Type (Size)	Remarks
ID	Identify Individual Trainers	INTEGER	Primary
Last Name	Trainee's Last Name	VARCHAR (50)	Required
First Name	Trainee's First Name	VARCHAR (50)	Required
E-mail Address	Trainee's E-mail	VARCHAR (50)	Required
Job Title	Trainee's Job Title	VARCHAR (50)	Required
Mobile Phone	Trainee’s Mobile Phone	VARCHAR (255)	Required
Address	Trainee's Address	VARCHAR (255)	Required
City	City of Trainee's Address	VARCHAR (50)	Required
State/Province	State/Province of Trainee's Address	VARCHAR (50)	Required
ZIP/Postal Code	ZIP/Postal Code of Trainee's Address	INTEGER	Required

Transaction Table

This table consists of various information pertaining to each transation.at The Outfit. Each transaction is identified by a unique number labeled as Order ID. This table also contains various information about each order including: the employee who took the order (Employee ID), the customer who placed the order (Customer ID), transaction date, taxes, payment type, notes related to the transaction.

File Name	Description	Data Type (Size)	Remarks
ID	Identify Transaction	INTEGER	Primary Key
Employee ID	Identify Employee	INTEGER	Required; FK references Employee (EmployeeID)
Customer ID	Identify Individual Customer	INTEGER	Required; FK references Customer (CustomerI D)
Transaction Date	Date Ordered	DATE	Required
Payment Type	Date Picked up	VARCHAR (50)	Required
Offer Type	Applicable Offers	VARCHAR (50)	Required
Amount	Amount paid including tax	INTEGER	Required

Customer Contract:

This table consists of all details pertaining to all contracts made by individual customers. The details for each contract are identified by a unique number labeled as ID. Information like contract start date, expiration date, contract Info and the Customer ID, Service ID, Transaction ID as foreign keys to the Customer Contract.

File Name	Description	Data Type (Size)	Remarks
ID	Identify Health Condition	INTEGER	Primary
Customer ID	Identify Customer	INTEGER	Required; FK references Customer (CustomerID)
Service ID	Identify Service	INTEGER	Required; FK references Service (ServiceID)
Transaction ID	Identify the transaction	INTEGER	Required; FK references Transaction (Transaction ID)
Start Date	Start Date of Contract	DATE	Optional
Expiration Date	Expiration Date of Contract	DATE	Required
Contract Info	Additional Information	VARCHAR (255)	Required

Service Schedule:

This table consists of all information related to the Service Schedule at The Outfit. Each Schedule is identified with a unique number labeled as ID. Information included in this table ranges from: Days of service offered, Start time of service, End time of service, notes for additional comments and we have Customer ID, Service ID, Trainer ID as foreign keys to the Customer Contract.

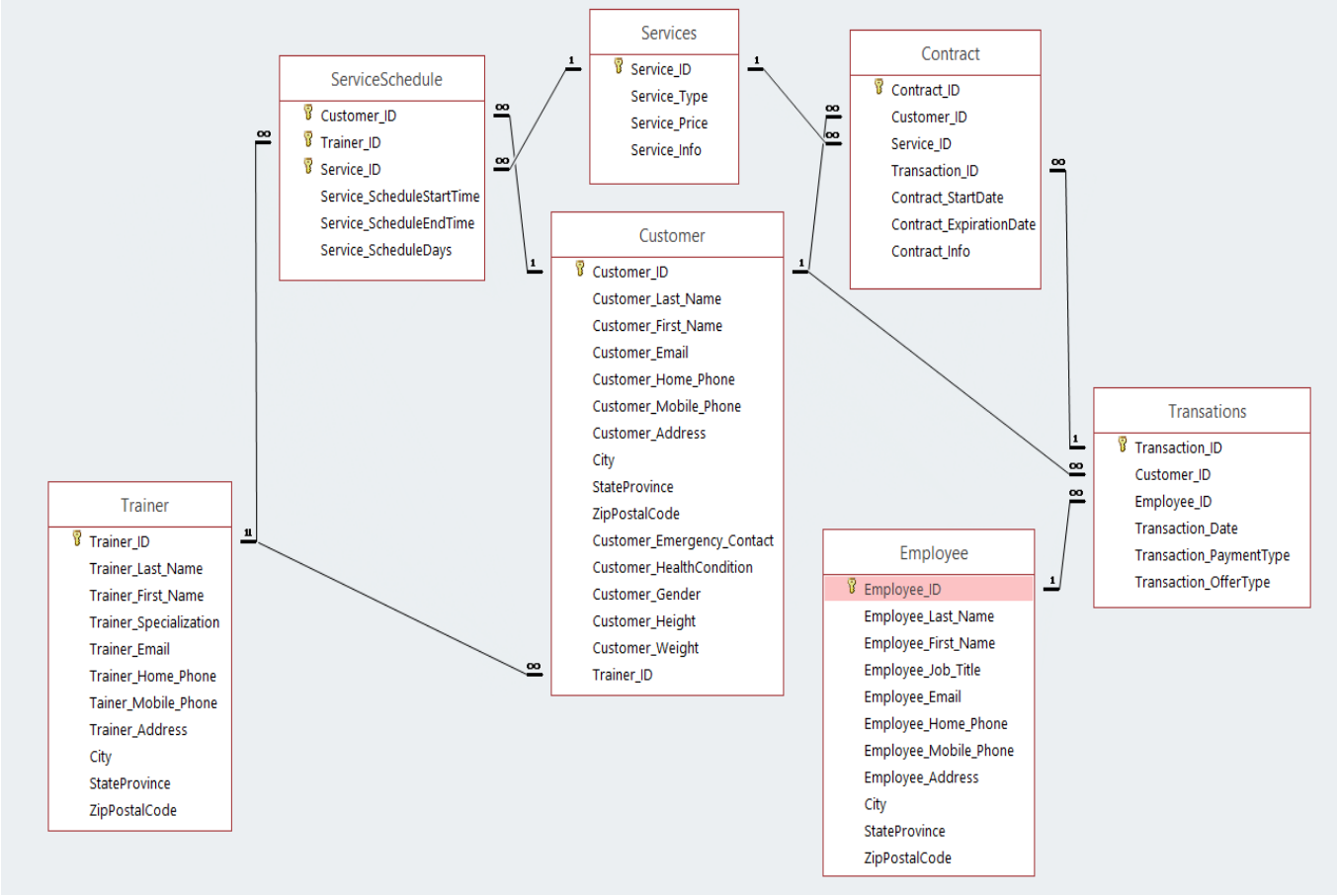
File Name	Description	Data Type (Size)	Remarks
ID	Identify Service Schedule	INTEGER	Primary Key
Trainer ID	Identify Trainer	INTEGER	Required; FK references Trainer (TrainerID)
Customer ID	Identify Individual Customer	INTEGER	Required; FK references Customer (CustomerID)
Service ID	Identify Service	INTEGER	Required; FK references Services (ServiceID)
Days	Days of Service Offered	DATE	Required
Start Time	Start Time of Service	TIME	Required
End Time	End Time of Service	TIME	Required
Notes	Commentary	VARCHAR (255)	Optional

Service:

This table consists of all information related to the different services and programs provided at The Outfit. Each Service is identified with a unique number labeled as ID. Information included in this table ranges from: Service type or program type, Price and Service Information.

File Name	Description	Data Type (Size)	Remarks
ID	Identify Service	INTEGER	Primary Key
Service Type	Type of Training	VARCHAR (50)	Required
Price	Price of the Service	VARCHAR(50)	Required
Service Info	Additional Comments	VARCHAR (255)	Optional

Entity Relationship Diagram with Definitions



Relational Database Schema

Employees Table

```
DROP TABLE Employees; CREATE
TABLE Employees(
  Employee_ID                 INTEGER          NOT NULL
  Employee_Last_Name          VARCHAR(100)     NOT NULL,
  Employee_First_Name         VARCHAR(100)     NOT NULL,
  Employee_Email_Address      VARCHAR(50)      NOT NULL,
  Employee_Job_Title          VARCHAR(50)      NOT NULL,
  Employee_Home_Phone         VARCHAR(255)     NOT NULL,
  Employee_Mobile_Phone       VARCHAR(255)     NOT NULL,
  Employee_Address            VARCHAR(255)     NOT NULL,
  Employee_City               VARCHAR(50)      NOT NULL,
  Emloyee_StateProvince       VARCHAR(50)      NOT NULL,
  Employee_ZIPPostal_Code     INTEGER          NOT NULL

CONSTRAINT PKEmployee_ID PRIMARY KEY (Employee_ID)
 );
```

INSERT INTO Employee(Employee_ID, Employee_Last_Name, Employee_First_Name, Employee_Job_Title, Employee_Email_Address, Employee_Home_Phone, Employee_Mobile_Phone, Employee_Address, Employee_City, Employee_StateProvince, Employee_ZIPPostal_Code)
VALUES (500001,'Urban', 'Keith', 'Receptionist', 'k.urban@gmail.com', '940-765-0980','940-999-5643','2300 W. Plum Street','Seattle','WA',63027);

INSERT INTO Employee(Employee_ID, Employee_Last_Name, Employee_First_Name, Employee_Job_Title, Employee_Email_Address, Employee_Home_Phone, Employee_Mobile_Phone, Employee_Address, Employee_City, Employee_StateProvince, Employee_ZIPPostal_Code)
VALUES (500002,'Legend', 'John', 'Janitor', 'j.legend@gmail.com', '940-123-0777','940-012-1111','7652 Mccallum Blvd','Dallas' ,'TX',75252);

INSERT INTO Employee(Employee_ID, Employee_Last_Name, Employee_First_Name, Employee_Job_Title, Employee_Email_Address, Employee_Home_Phone, Employee_Mobile_Phone, Employee_Address, Employee_City, Employee_StateProvince, Employee_ZIPPostal_Code)
VALUES (500003,'Michael', 'George','Cashier' , 'g.michael@gmail.com', '940-222-9083','940-258-1234','1780 S.Houston Street','Houston' ,'TX',77070);

INSERT INTO Employee(Employee_ID, Employee_Last_Name, Employee_First_Name, Employee_Job_Title, Employee_Email_Address, Employee_Home_Phone, Employee_Mobile_Phone, Employee_Address, Employee_City, Employee_StateProvince, Employee_ZIPPostal_Code)
VALUES (500004,'Mayer', 'John', 'Customer Service Rep' ,'j.mayer@gmail.com', '940-258-0988','940-258-1212,'1123 Baker Street','Austin' ,'TX',73301);

INSERT INTO Employee(Employee_ID, Employee_Last_Name, Employee_First_Name, Employee_Job_Title, Employee_Email_Address, Employee_Home_Phone, Employee_Mobile_Phone, Employee_Address, Employee_City,

```
Employee_StateProvince, Employee_ZIPPostal_Code)
VALUES (500005,’Puth’, ‘Charlie’,’Clerk ’ ,'c.puth@gmail.com', '940-258-0121’,'940-258-1234’,'1321 Campbell
Street','San Francisco','CA',94016);
```

Customers Table

```
DROP TABLE Customers; CREATE
TABLE Customers(
  Customer_ID                 INTEGER          NOT NULL,
  Trainer ID                  INTEGER          NOT NULL,
  Customer_Last_Name          VARCHAR(50)      NOT NULL,
  Customer_First_Name         VARCHAR(50)      NOT NULL,
  Customer_Email_Address      VARCHAR(50)      NOT NULL,
  Customer_Home_Phone         VARCHAR(255)     NOT NULL,
  Customer_Mobile_Phone       VARCHAR(255)     NOT NULL,
  Customer_Address            VARCHAR(255)     NOT NULL,
  Customer_City               VARCHAR(50)      NOT NULL,
  Cutomer_StateProvince       VARCHAR(50)      NOT NULL,
  Customer_ZIPPostal_Code     INTEGER          NOT NULL,
  Customer_Emergency_Contact  VARCHAR(100)     NOT NULL,
  Customer_Health_Condition   VARCHAR(100)     NOT NULL,
  Customer_Gender             VARCHAR(20)      NOT NULL,
  Customer_Height             INTEGER(20)      NOT NULL,
  Customer_Weight             INTEGER(20)      NOT NULL,
  Customer_BMI                DECIMAL(3,2)     NOT NULL,

CONSTRAINT PKCustomer_ID PRIMARY KEY (Customer_ID)
CONSTRAINT FKTrainer_ID FOREIGN KEY (Trainer_ID) REFERENCES Trainer
ON UPDATE CASCADE
);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone,
Mobile_Phone , Address  , City   , StateProvince    , ZIPPostal_Code   , Customer_Emergency_Contact,
Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID )
VALUES (1000001,’Lee’, ‘Samy’,'s.lee@gmail.com', '940-258-0980’,'940-258-9874','1600 W. Plum
Street','Seattle','WA',63027,’Adam Smith 987-402-8484’ , ‘Diabetic’ , ‘FEMALE’,170 , 150 , 40.1 , 200000 );

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone,
Mobile_Phone , Address  , City   , StateProvince    , ZIPPostal_Code   , Customer_Emergency_Contact,
Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID )
VALUES (1000002,'Grygar','John’,'g.john@gmail.com', '940-258-6611,'940-258-7272,'1600 W. Plum
Street',’Dallas’,’TX’,75252,’Rob Metz 987-402-2322 , ‘High Blood Pressure’, ‘MALE’,175 , 165 , 40.1 , 200001);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone,
```

Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID) VALUES (1000003,'Rogers',’Brian’,'b.rogers@gmail.com', '940-222-0210,'940-629-0190,'1600 W. Plum Street','Austin','TX',63027,Dan Kuan 987-402-1098 , ‘ Stroke ’ , ‘MALE’,185 , 170 , 40.1 , 200002);

INSERT INTO Customer (Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone, Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID) VALUES (1000004,’Bomer’,’Rex’,'r.bomer@gmail.com', '940-011-5489,'940-999-1090,'1600 W. Plum Street','Houston','TX',77041,’Emelie Ortiz 987-402-7221 , ‘Hypertension’ , ‘MALE’,181 , 160 , 40.1 , 200003);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone, Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID) VALUES (1000005,’Orban’,’Charles’,'c.orban@gmail.com', '940-110-2019’,'940-201-1090’,'1600 W. PlumStreet','Richmond','VA',63027,’Melanie Lilo 987-402-8484 ‘, ‘Fatty Liver’, ‘MALE’,182 , 150 , 40.1 , 200004);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone, Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID) VALUES (1000006,’Pratt’, ‘Chris’,'c.pratt@gmail.com', '940-110-2017’,'940-201-2012','8000 S. Plum Street','Dallas','TX',75252,’Andy Flintoff 987-234-8888’ , ‘None’ , ‘MALE’,184 , 178 , 40.1 , 200005);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone, Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID) VALUES (1000007,'Diesel',’Vin’,'v.diesel@gmail.com', '940-110-2006,'940-201-2312,'7373 E. Plum Street',’Dallas’,’TX’,75252, Tom Hiddle 987-222-7654 , ‘ None ’, ‘MALE’,182 , 172 , 40.1 , 200006);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone, Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID) VALUES (1000008,'Gillan',’Karen’,'k.gillan@gmail.com', '940-110-2088,'940-201-7675,'2342 N. Plum Street','Dallas','TX',75252,Thor Asgard 987-444-9383 , ‘Knee Injury ’ , ‘FEMALE’,173 , 151 , 40.1 , 200007);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone, Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID) VALUES (1000009,’Saldana’,’Zoe’,'z.saldana@gmail.com', '940-110-1112,'940-201-8890,'1231 E. Plum Street','Dallas','TX',75252,’Bruce Wayne 987-111-4343 , ‘Back Injury’ , ‘FEMALE’,172 , 152 , 40.1 , 200009);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone, Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID) VALUES (1000010,’Lee’,’Stan’,'st.lee@gmail.com', '940-110-8876’,'940-201-1760’,'4234 N. PlumStreet','Dallas','TX',75252,’Bucky 987-111-3333 ‘, ‘None’, ‘MALE’,190 , 180 , 40.1 , 200003);

INSERT INTO Customer(Customer_ID,Customer_Last_Name, Customer_First_Name , Email_Address, Home_Phone, Mobile_Phone , Address , City , StateProvince , ZIPPostal_Code , Customer_Emergency_Contact, Customer_HealthCondition, Customer_Gender, Customer_Height, Customer_Weight, Customer_BMI , Trainer_ID)

VALUES(1000011,’Lawrence’,’Jenn’,'j.law@gmail.com','940-110-2345’,'940-201-1420’,'2341E. PlumStreet','Dallas','TX',75252,’Charlie 987-234-8383 ‘, ‘Slip Disc’, ‘FEMALE’,168 , 160 , 40.1 , 200004);

Trainers Table

```
DROP TABLE Trainer; CREATE TABLE
Trainer (
  Trainer_ID                  INTEGER          NOT NULL
  Trainer_Last_Name           VARCHAR(100)     NOT NULL,
  Trainer_First_Name          VARCHAR(100)     NOT NULL,
  Trainer_Email_Address       VARCHAR(50)      NOT NULL,
  Trainer_Specialization      VARCHAR(100)     NOT NULL,
  Trainer_Home_Phone          VARCHAR(50)      NOT NULL,
  Trainer_Mobile_Phone        VARCHAR(50)      NOT NULL,
  Trainer_Address             VARCHAR(255)     NOT NULL,
  Trainer_City                VARCHAR(50)      NOT NULL,
  Trainer_StateProvince       VARCHAR(50)      NOT NULL,
  Trainer_ZIPPostal_Code      INTEGER          NOT NULL
CONSTRAINT PKTrainer_ID PRIMARY KEY (Trainer_ID)
);
```

INSERT INTO Trainer (Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000001,’Starc’, ‘Mitchell’,’Strength’,'m.starc@gmail.com', '940-258-0980’,'940-765-8987’, 7777 W. Plum Street','Seattle','WA',63027’);

INSERT INTO Trainer (Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000002,’Pollard’, ‘Keiron’,’Conditioning','k.pollard@gmail.com', '940-258-4523’,'940-654-0098’, 8000 Mccallum Blvd','Dallas’ ,'TX',75252’);

INSERT INTO Trainer (Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000003,’Gibbs’, ‘Herschelle,’Agility’,'h.gibbs@gmail.com', '940-258-6564’,'940-432-1234’, 9000 S.Houston Street','Houston’ ,'TX',77070’);

INSERT INTO Trainer(Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000004,’Smith’, ‘Dwayne’,’Crosfit','d.smith@gmail.com', '940-258-7654’,'940-098-5643’, 8762 Baker Street','Austin’ ,'TX',73301’);

INSERT INTO Trainer(Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000005,’Lee’, ‘Brett’,’Power,’b.lee@gmail.com', '940-258-2221’,'940-768-0932’, 8765 Campbell

Street','San Francisco','CA',94016');

INSERT INTO Trainer (Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000006,'Kohli', 'Virat',' Mixed Martial Arts','v.kohli@gmail.com', '940-258-8888','940-765-7777', 4000 Coit Road','Dallas','TX',75252');

INSERT INTO Trainer (Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000007,'Gayle', 'Chris','Calistenics','c.gayle@gmail.com', '940-258-1111','940-654-2222', 6666 Preston Road','Dallas' ,'TX',75252');

INSERT INTO Trainer (Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000008,'Sammy', 'Darren','Yoga','D.sammy@gmail.com', '940-258-8954','940-258-9999', 7546 Sprinfield avenue','Dallas' ,'TX',75252');

INSERT INTO Trainer(Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000009,'Bolt', 'Usain','Road Runner','u.bolt@gmail.com', '940-258-9090','940-098-0070', 2222 Argentine way,'Dallas' ,'TX',75252');

INSERT INTO Trainer(Trainer_ID, Trainer_Last_Name, Trainer_First_Name, Trainer_Specialization, Trainer_Email_Address, Trainer_Home_Phone, Trainer_Mobile_Phone, Trainer_Address, Trainer_City, Trainer_StateProvince, Trainer_ZIPPostal_Code)
VALUES (2000010,'Mahi', 'Dhoni','Phantom Conditioing','m.dhoni@gmail.com', '940-268-2635','940-268-6565'2000 renner road,'Dallas','TX',75252');

Contract Table

```
DROP TABLE Contract; CREATE
TABLE Contract (
  Customer_Contract_ID      INTEGER          NOT NULL,
  Customer_ID               INTEGER          NOT NULL,
  Service_ID                INTEGER          NOT NULL,
  Transaction_ID            INTEGER          NOT NULL,
  Contract_StartDate        DATE             NOT NULL,
  Contract_ExpirationDate   DATE             NOT NULL,
  Contract_Info             VARCHAR(250)     NOT NULL,

CONSTRAINT PKCUSTOMERCONTRACT PRIMARY KEY (CUSTOMERCONTRACT_ID),
CONSTRAINT FKCUSTOMERID FOREIGN KEY (CUSTOMER_ID) REFERENCES CUSTOMER,
CONSTRAINT FKSERVICEID FOREIGN KEY (SERVICE_ID) REFERENCES SERVICE,
CONSTRAINT FKTRANSACTIONID FOREIGN KEY (TRANSACTION_ID) REFERENCES TRANSACTION
);
```

```
INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400001','05/02/2017','06/01/2017','MONTHLY','1000001','600001','900001');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400002','06/10/2016','09/09/2016','QUARTERLY','1000002','600002','900002');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400003','02/15/2016','08/14/2016','HALFYEARLY','1000003','600003','900003');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400004','09/17/2016','09/16/2017','ANNUALLY','1000004','600004','900004');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400005','03/19/2017','04/18/2017','MONTHLY','1000005','600005','900005');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400006','05/29/2017','11/28/2017','HALFYEARLY','1000006','600006','900006');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400007','01/30/2016','01/29/2017','ANNUALLY','1000007','600007','900007');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400008','08/07/2016','11/06/2016','QUARTERLY','1000008','600008','900008');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
VALUES('400009','04/04/2016','04/03/2017','ANNUALLY','1000009','600009','900009');

INSERT INTO
CUSTOMERCONTRACT(CUSTOMERCONTRACT_ID,CONTRACT_STARTDATE,CONTRACT_EXPIRATIONDATE,CONTRACT
_INFO,CUSTOMER_ID,SERVICE_ID,TRANSACTION_ID)
```

```
VALUES('400010','07/03/2017','01/02/2018','HALFYEARLY','1000010','600010','900010');
```

Service Table

```
DROP TABLE Service;

CREATE TABLE Service (
  Service_ID          INTEGER        NOT NULL,
  Service_Type        VARCHAR(50)    NOT NULL,
  Service_Price       VARCHAR(50)    NOT NULL,
  Servive_Info        VARCHAR(250)   NOT NULL,

CONSTRAINT PKSERVICE PRIMARY KEY (SERVICE_ID)

);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600001','STRENGTH','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600002','CONDITIONING','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600003','AGILITY','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600004','POWER','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600005','MIXED MARTIAL ARTS','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600006','CROSSFIT','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600007','YOGA','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600008','ROAD RUNNER','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600009','PHANTHOM CONDITIONING','M-99$,Q-250$,H-449$,Y-799$',NULL);

INSERT INTO SERVICE(SERVICE_ID,SERVICE_TYPE,SERVICE_PRICE,SERVICE_INFO)
VALUES('600010','CALITHENICS','M-99$,Q-250$,H-449$,Y-799$',NULL);
```

ServiceSchedule Table

```
DROP TABLE ServiceSchedule;

CREATE TABLE ServiceSchedule (
  Customer_ID                INTEGER          NOT NULL,
  Trainer_ID                 INTEGER          NOT NULL,
  Service_ID                 INTEGER          NOT NULL,
  ServiceSchedule_Days       VARCHAR(50)      NOT NULL,
  ServiceSchedule_StartTime  VARCHAR(50)      NOT NULL,
  ServiceSchedule_EndTime    VARCHAR(50)      NOT NULL,

CONSTRAINT PKSERVICESCHEDULE PRIMARY KEY (CUSTOMER_ID,SERVICE_ID,TRAINER_ID),
CONSTRAINT FKCUSTOMERID FOREIGN KEY (CUSTOMER_ID) REFERENCES CUSTOMER,
CONSTRAINT FKSERVICEID FOREIGN KEY (SERVICE_ID) REFERENCES SERVICE,
CONSTRAINT FKTRAINERID FOREIGN KEY (TRAINER_ID) REFERENCES TRAINER
);

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100001','200001','600001','MWF','6:30','7:30');

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100002','200002','600002','TTHS','7:30,18:30','8:30,19:30');

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100003','200003','600003','MTTH','7:30,17:30','8:30,18:30');

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100004','200004','600004','MTWTHF','6:30,8:30,17:30,19:30','7:30,9:30,18:30,20:30');

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100005','200005','600005','TTHF','11:30,17:30','12:30,18:30');

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100006','200006','600006','MTHS','6:30,8:30','7:30,9:30');

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100007','200007','600007','MTTH','7:30,11:30,17:30','8:30,12:30,18:30');
```

```
INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100008','200008','600008','MTWTHF','6:30,18:30','7:30,19:30');

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100009','200009','600009','MWF','6:30','7:30');

INSERT INTO
SERVICESCHEDULE(CUSTOMER_ID,SERVICE_ID,TRAINER_ID,SERVICESCHEDULE_DAYS,SERVICESCHEDULE_STARTTIM
E,SERVICESCHEDULE_ENDTIME)
VALUES('100010','200010','600010','MWF','6:30,17:30','7:30,18:30');
```

Transactions Table

```
DROP TABLE Transactions;

CREATE TABLE Transactions (
   Transaction_ID          INTEGER          NOT NULL,
   Customer_ID             INTEGER          NOT NULL,
   Employee_ID             INTEGER          NOT NULL,
   Transaction_Date        DATE             NOT NULL,
   Payment_Type            VARCHAR(50)      NOT NULL,
   Offer_Type              VARCHAR(50)       NULL,
   Amount                  INTEGER          NOT NULL,

CONSTRAINT PKTRANSACTION PRIMARY KEY (TRANSACTION_ID),
CONSTRAINT FKCUSTOMERID FOREIGN KEY (CUSTOMER_ID) REFERENCES CUSTOMER,
CONSTRAINT FKEMPLOYEEID FOREIGN KEY (EMPLOYEE_ID) REFERENCES EMPLOYEE
);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
E,AMOUNT)
VALUES('900001','05/02/2017','CREDIT CARD','100001','200001',NULL,$114);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
E,AMOUNT)
VALUES('900002','06/09/2017','DEBIT CARD','100002','200002',NULL,$288);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
E,AMOUNT)
VALUES('900003','02/14/2017','CASH','100003','200003',NULL,$516);

INSERT INTO
```

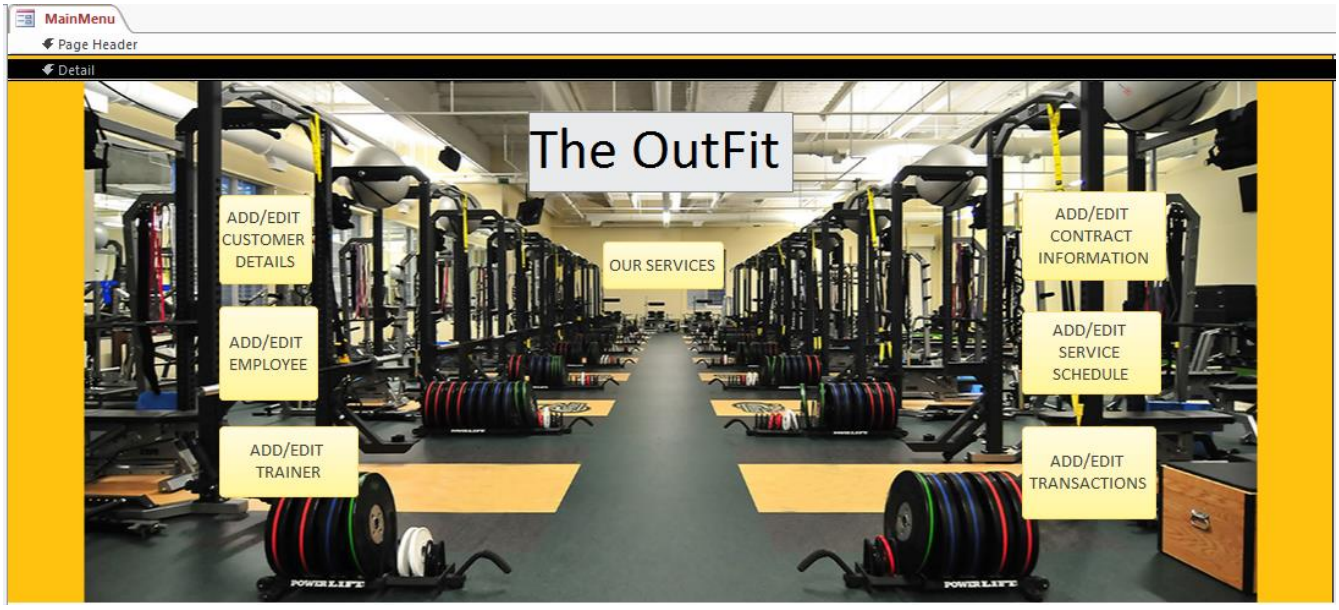
```
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
E,AMOUNT)
VALUES('900004','09/16/2017','ONLINE','100004','200004',NULL,$919);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
EAMOUNT)
VALUES('900005','03/19/2017','CHEQUE','100005','200005',NULL,$114);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
EAMOUNT)
VALUES('900006','05/28/2017','CREDIT CARD','100006','200006',NULL,$516);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
E,AMOUNT)
VALUES('900007','01/30/2017','DEBIT CARD','100007','200007',NULL,$919);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
E,AMOUNT)
VALUES('900008','08/07/2017','CASH','100008','200008',NULL,$288);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
E,AMOUNT)
VALUES('900009','04/04/2017','CHEQUE','100009','200009',NULL,$919);

INSERT INTO
TRANSACTIONS(TRANSACTION_ID,TRANSACTION_DATE,PAYMENT_TYPE,CUSTOMER_ID,EMPLOYEE_ID,OFFER_TYP
E,AMOUNT)
VALUES('900010','07/02/2017','ONLINE','100010','200010',NULL,$516);
```

Contribution Statement:

Entire team worked together on deciding the tables and relationships for the database. Hersh finalized the ERD. Aditya, Sairam and Lohith inputted the data into the database. Hersh and Lohith created the database in access. Lohith did the Scope of the Database. Aditya and Sairam created the Relational Database Schema. Hersh and Aditya created the Menu Screen. Sairam created reports with help of Hersh. Lohith made the final report document.

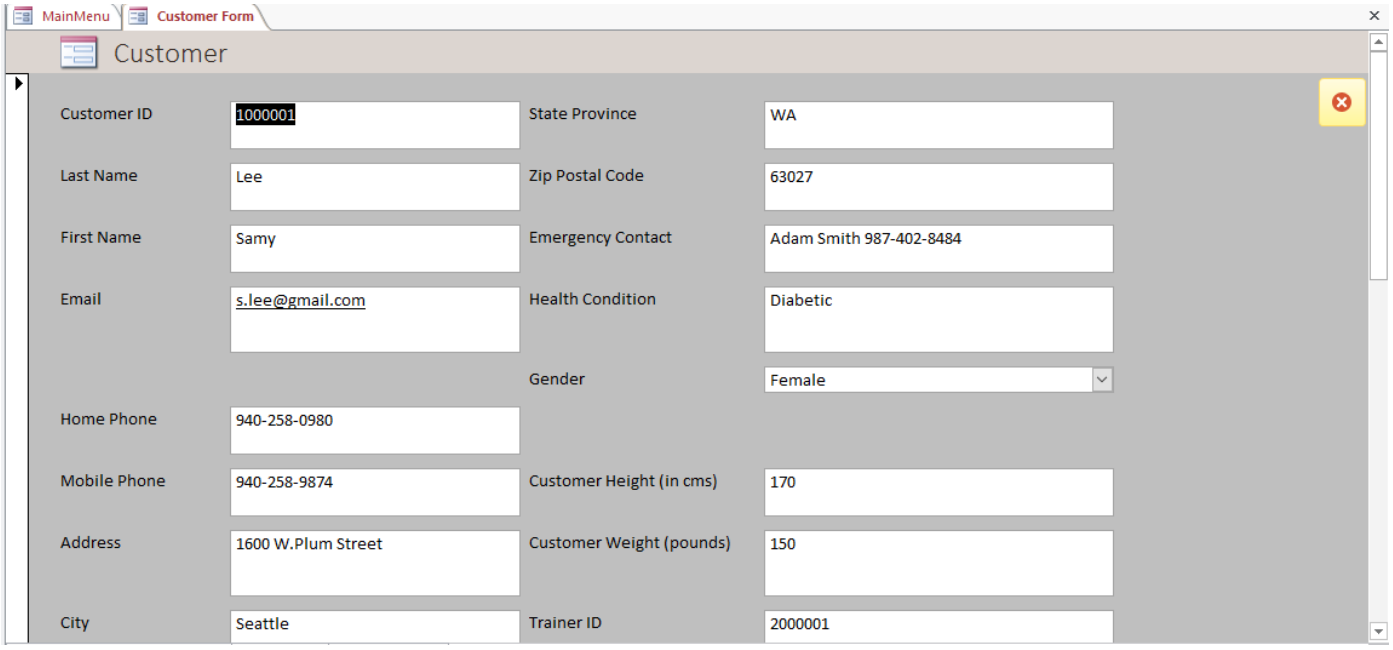
Menu and Data Input Screens

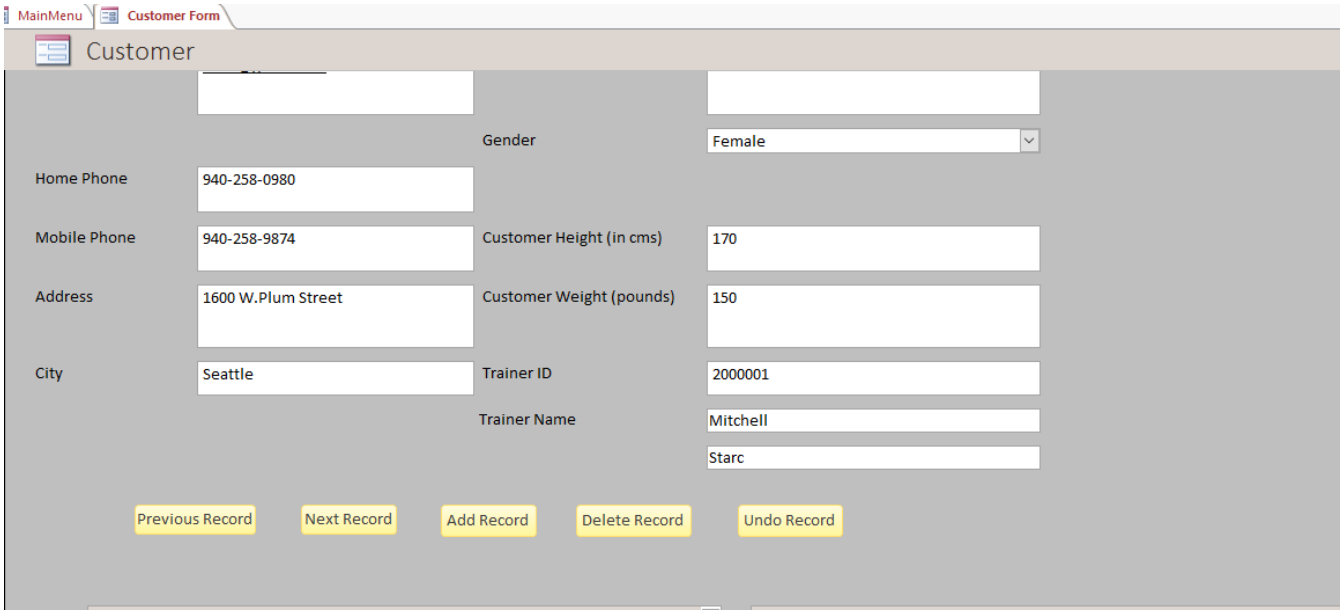
Startup Screen



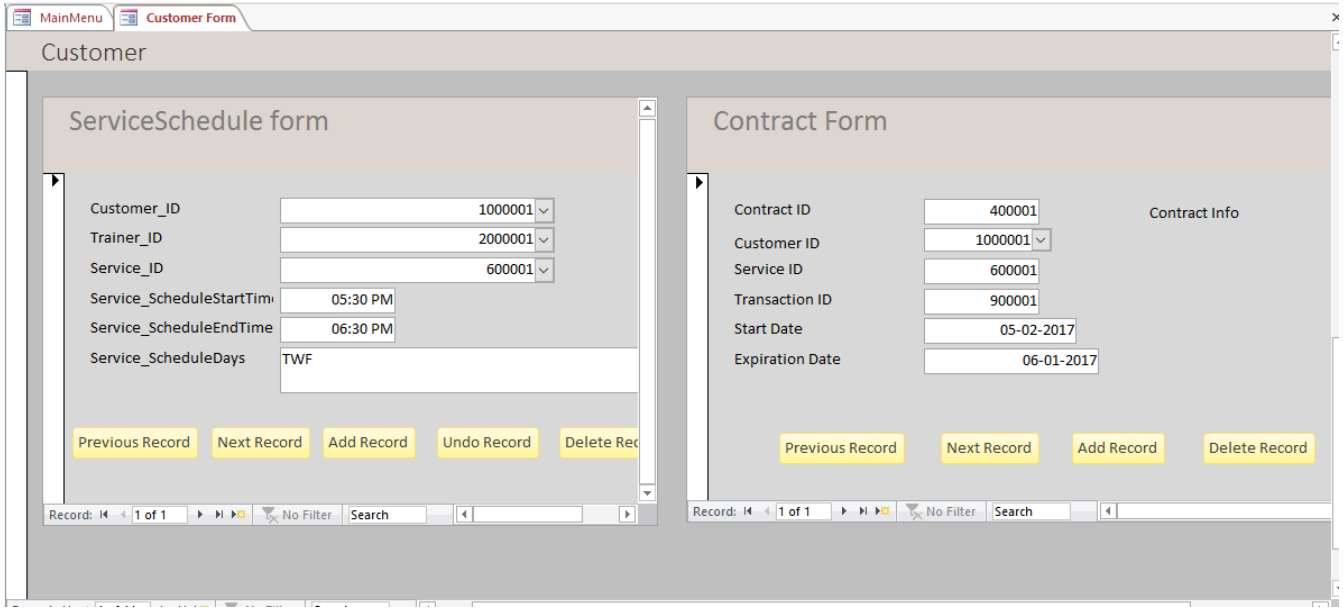
Customer Form

This form consists of customer information. Each customer is assigned and identified by a unique number labeled as ID. This form also contains personal information of the customer. This information ranges from their full name, current job, e-mail address, various phone numbers and their address.



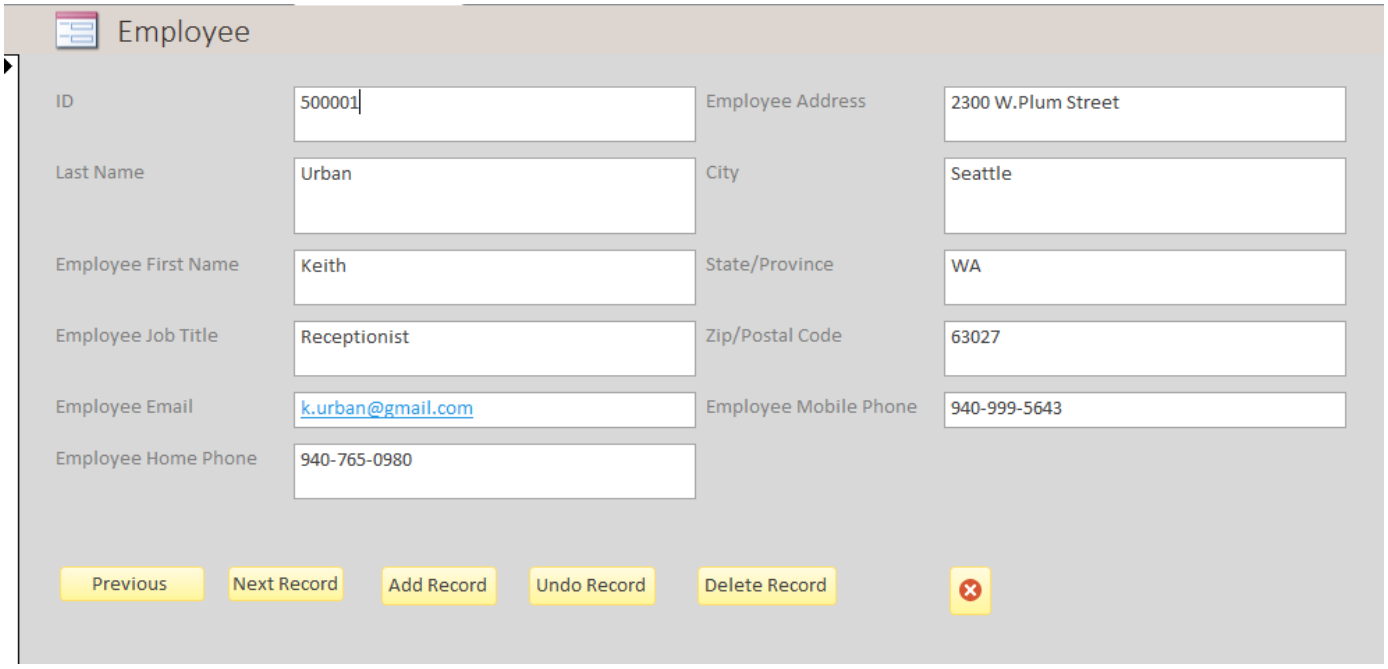


Customer Sub form



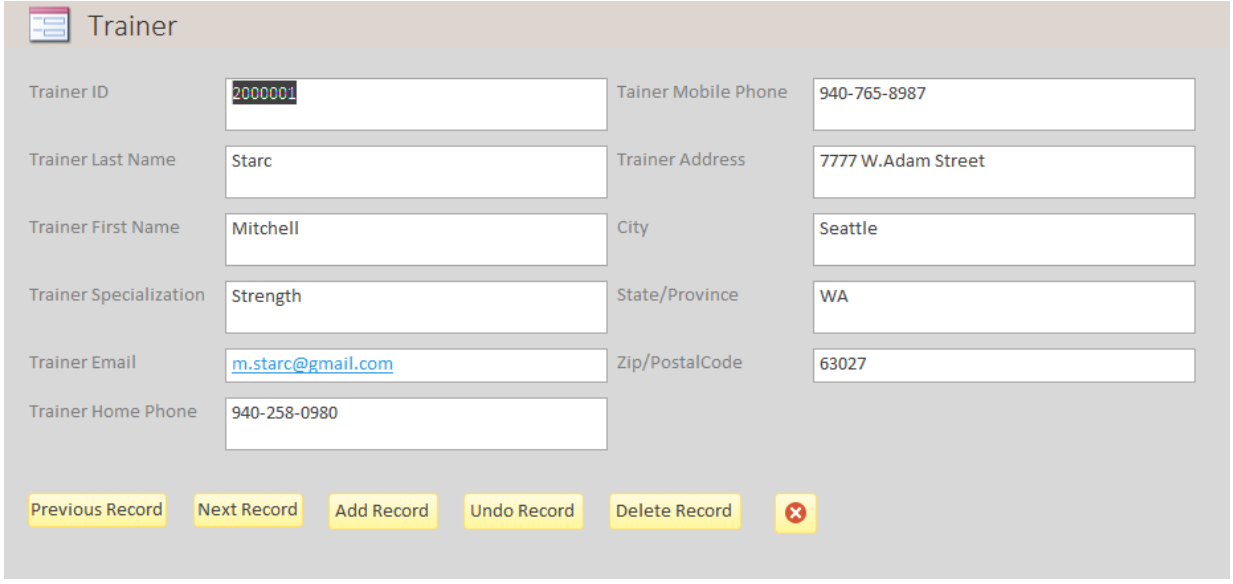
Employee form: -

This employee consists of all personal information pertaining to each individual employee employed at The Outfit. Each employee is identified by a unique number labeled as ID. Information ranging from their full name, email address, various phone numbers and address is included in this employee.



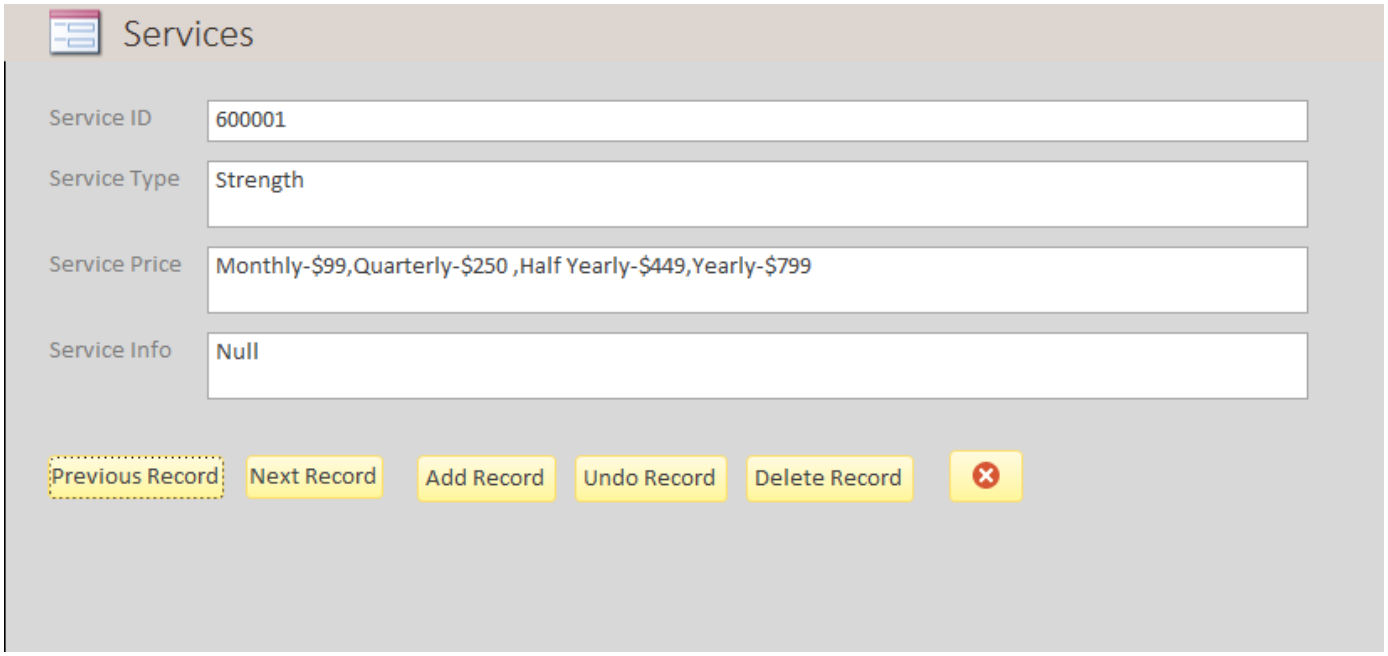
Trainer form: -

This form consists of all personal information pertaining to each individual Trainer employed at The Outfit. Each employee is identified by a unique number labeled as ID. Information ranging from their full name, email address, various phone numbers and address is included in this form.



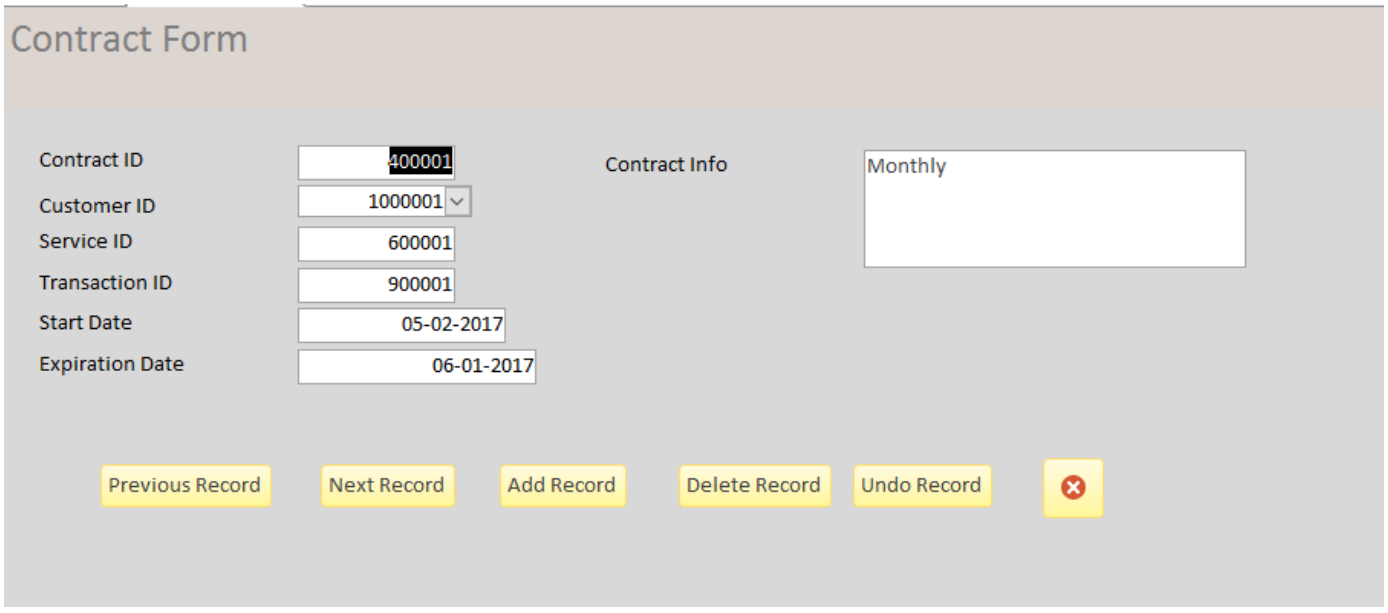
Services form: -

This table consists of all information related to the different services and programs provided at The Outfit. Each Service is identified with a unique number labeled as ID. Information included in this table ranges from: Service type or program type, Price and Service Information.



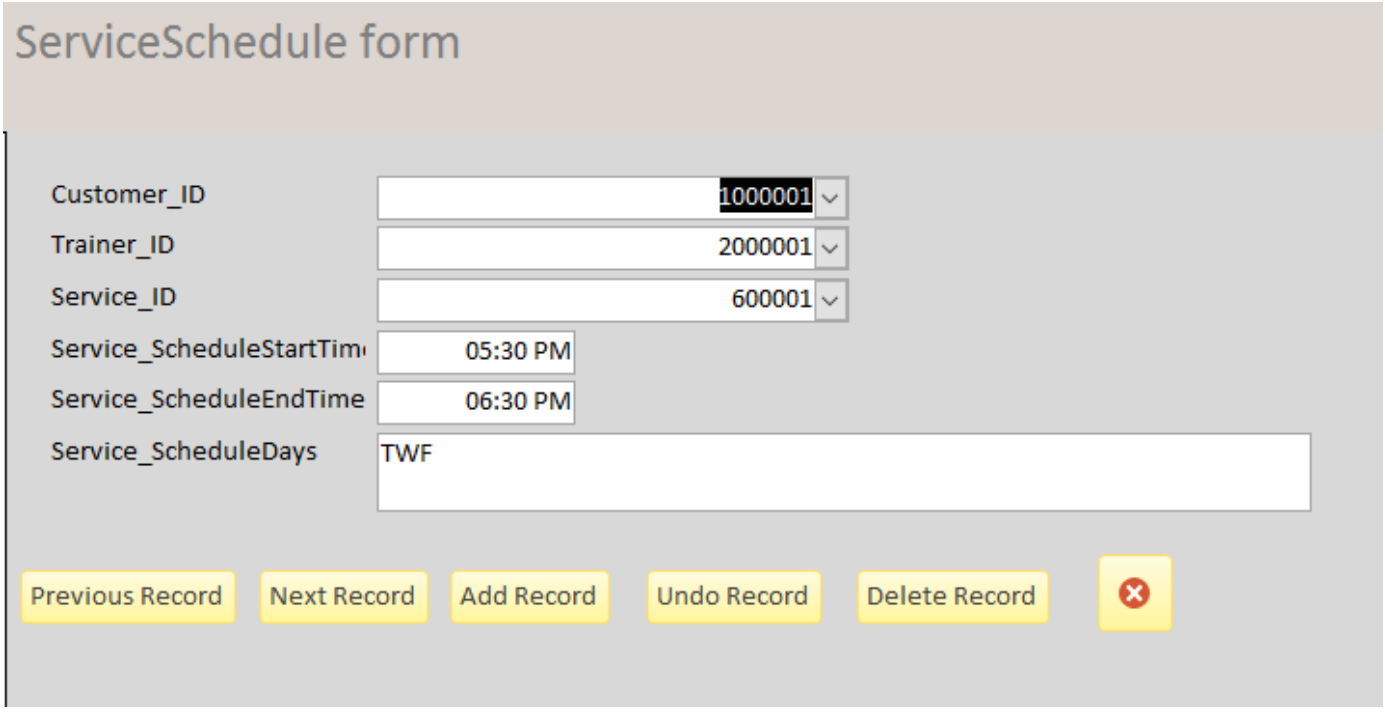
Contract Form: -

This form consists of all details pertaining to all contracts made by individual customers. The details for each contract are identified by a unique number labeled as ID. Information like contract start date, expiration date, contract Info and the Customer ID, Service ID, Transaction ID as foreign keys to the Customer Contract.



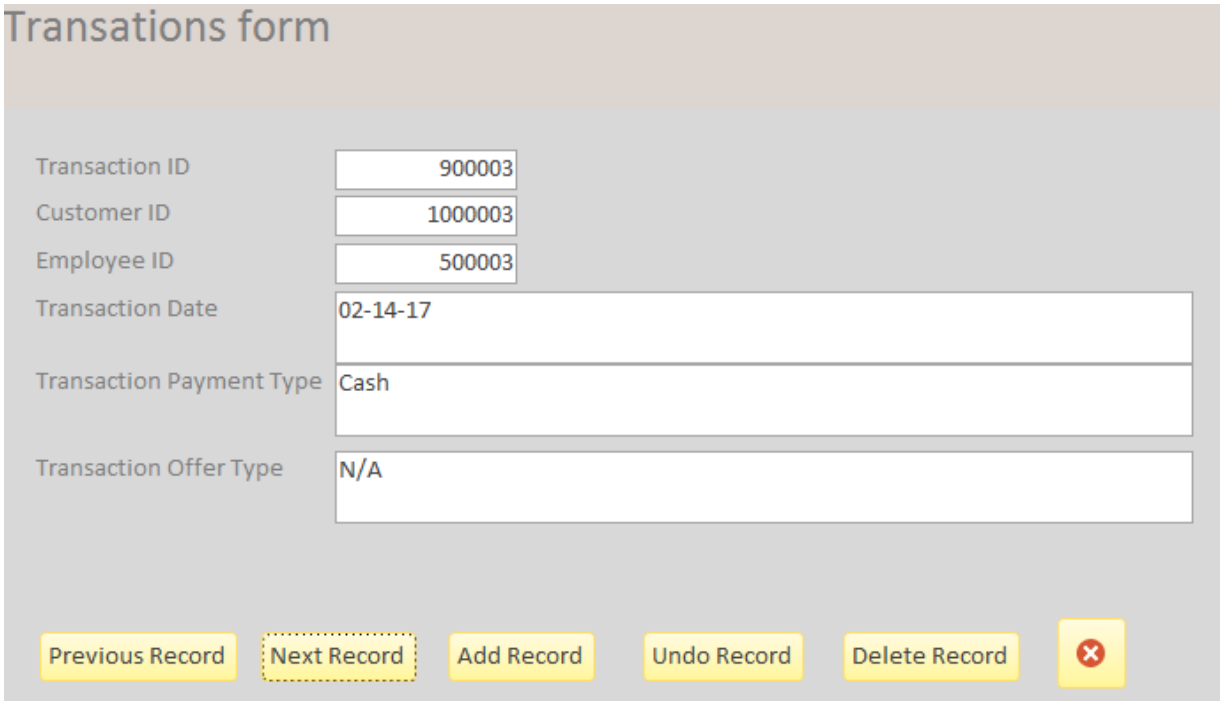
Service schedule form: -

This form consists of all information related to the Service Schedule at The Outfit. Each Schedule is identified with a unique number labeled as ID. Information included in this form ranges from: Days of service offered, Start time of service, End time of service, notes for additional comments and we have Customer ID, Service ID, Trainer ID as foreign keys to the Customer Contract.



Transaction: -

This form consists of various information pertaining to each transation.at The Outfit. Each transaction is identified by a unique number labeled as Order ID. This form also contains various information about each order including: the employee who took the order (Employee ID), the customer who placed the order (Customer ID), transaction date, taxes, payment type, notes related to the transaction.



Report screenshots: -