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**Course: INFO601 Data Modelling & SQL/2401**

## **UpLift Fit Database**

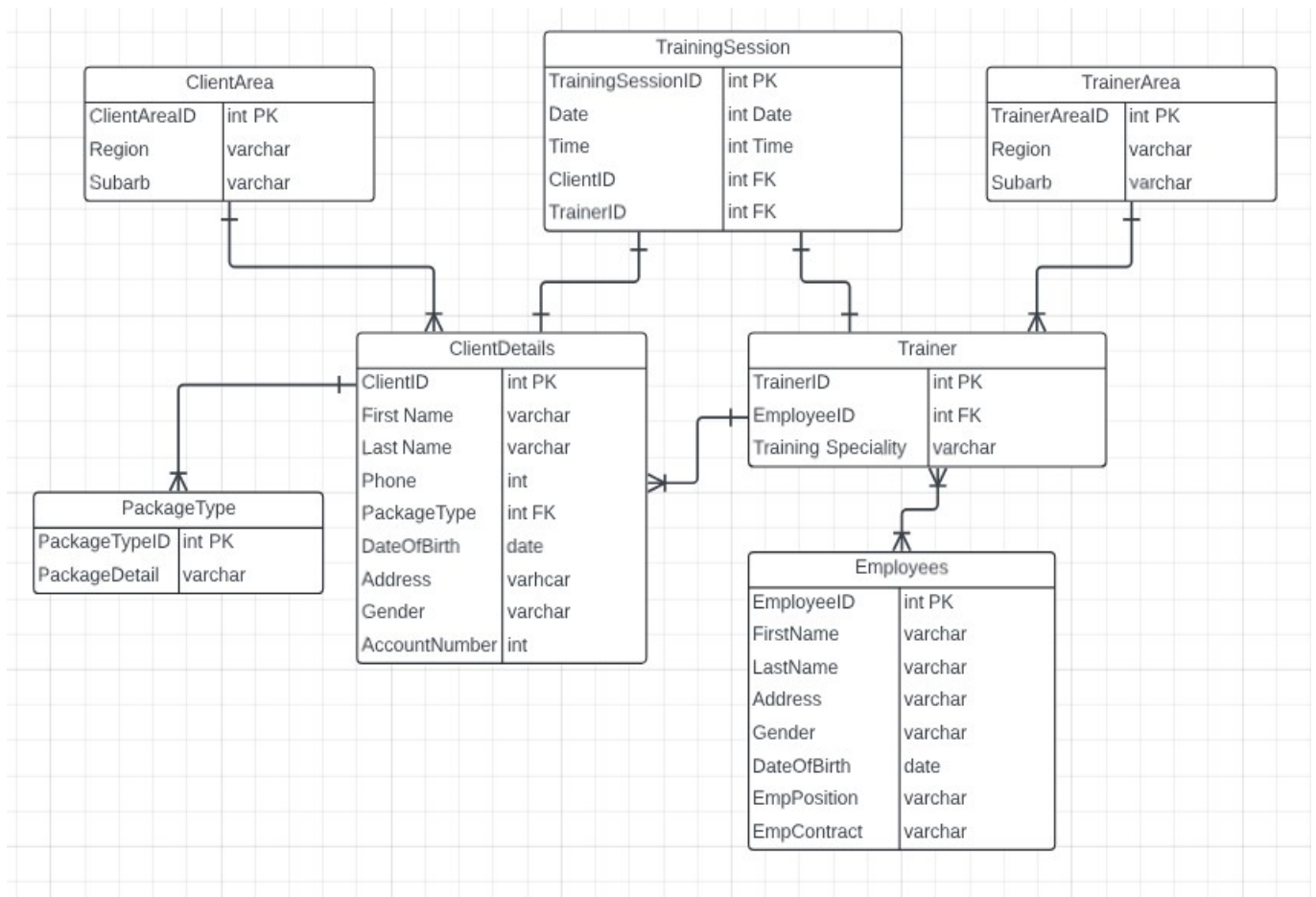
*Fernando Database Solutions*

*17<sup>th</sup> May 2024*

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## ERD Diagram

### ERD Diagram From Assessment 1



## Created Tables and Inserted Data

### Employees

```
CREATE TABLE Employees (  
    EmployeeID int identity (1,1) PRIMARY KEY,  
    FirstName VARCHAR(20),  
    LastName VARCHAR(20),  
    Address VARCHAR(50),  
    Gender varchar(1) check (Gender in ('F','M','O')),  
    DateOfBirth DATE,  
    EmployeePosition varchar(30) check (EmployeePosition in ('Trainer','Marketing','Sales','Admin','Help Desk')),  
    EmployeeContract varchar(10) check (EmployeeContract in ('Full Time','Casual','Part Time'))  
)  
  
INSERT INTO Employees VALUES  
(  
'George','Russell','123 Maple Street','M','1995-02-19','Trainer','Part Time'),  
(  
'Lewis','Hamilton','456 Avalon Drive','M','1989-04-09','Trainer','Full Time'),  
(  
'Jamie','Chadwick','212 Dowing Street','F','1999-04-19','Trainer','Part Time'),  
(  
'James','Johnson','567 Birch Lane','M','1987-09-25','Trainer','Casual'),  
(  
'Sophia','Williams','321 Elm Street','F','1993-11-12','Trainer','Part Time'),  
(  
'Natasha','Fernando','934 Pragma Rise','F','1998-08-17','Admin','Full Time'),  
(  
'John','Cena','268 Mount Road','O','1985-02-20','Help Desk','Casual'),  
(  
'Alonso','Fernando','98 Cross Road','M','2000-01-04','Sales','Full Time'),  
(  
'Emma','Smith','789 Oak Avenue','F','1990-06-15','Admin','Full Time'),  
(  
'Michael','Brown','101 Pine Road','M','1983-03-30','Marketing','Full Time'),  
(  
'Olivia','Jones','444 Cedar Court','F','1988-07-22','Marketing','Casual'),  
(  
'Daniel','Garcia','876 Walnut Drive','M','1996-02-10','Admin','Full Time');
```

### Package Type

```
CREATE TABLE PackageType (  
    PackageTypeID INT identity (1,1) PRIMARY KEY,  
    PackageDetail VARCHAR(30)  
)  
  
INSERT INTO PackageType VALUES  
(  
'Weight Loss'),  
(  
'Weight Gain'),  
(  
'Muscle Building'),  
(  
'Yoga'),  
(  
'Strength Building');
```

## Clients

```
CREATE TABLE Clients (  
    ClientID int identity (1,1) PRIMARY KEY,  
    FirstName VARCHAR(10),  
    LastName VARCHAR(10),  
    Address VARCHAR(50),  
    Gender char(1) check (Gender in ('F','M','O')),  
    DateOfBirth DATE,  
    PackageTypeID int FOREIGN KEY References PackageType(PackageTypeID),  
)  
  
INSERT INTO Clients VALUES  
(  
'Lance','Stroll','12 Elmo Street', 'M', '1997-04-01',5),  
(  
'Emily', 'Martinez', '555 Maple Avenue', 'F', '1994-04-05',4),  
(  
'Alexander', 'Anderson', '777 Oak Street', 'M', '1991-08-20',2),  
(  
'Ava', 'Hernandez', '888 Birch Road', 'F', '1986-12-10',1),  
(  
'William', 'Gonzalez', '999 Elm Drive', 'M', '1984-05-18',1),  
(  
'Mia', 'Lopez', '111 Pine Lane', 'F', '1989-09-28',2),  
(  
'Ethan', 'Perez', '222 Cedar Avenue', 'M', '1995-03-15',5),  
(  
'Charlotte', 'Robinson', '333 Walnut Road', 'F', '1992-07-25',3),  
(  
'Liam', 'Taylor', '444 Maple Drive', 'M', '1988-11-05',3),  
(  
'Amelia', 'Clark', '666 Oak Lane', 'F', '1993-01-12',1),  
(  
'Benjamin', 'Lewis', '777 Birch Street', 'M', '1987-06-30',3),  
(  
'Harper', 'Walker', '888 Elm Avenue', 'F', '1990-10-22',4),  
(  
'Lucas', 'Hall', '999 Pine Road', 'M', '1985-04-08',5),  
(  
'Evelyn', 'Young', '121 Cedar Lane', 'F', '1996-02-18',4),  
(  
'Logan', 'Scott', '232 Walnut Street', 'M', '1983-08-15',1),  
(  
'Avery', 'King', '343 Maple Road', 'F', '1988-12-05',2);
```

## Trainer

```
CREATE TABLE Trainer (  
    TrainerID int identity (1,1) PRIMARY KEY,  
    EmployeeID int FOREIGN KEY References Employees(EmployeeID),  
    TrainingSpeciality VARCHAR (20)  
)  
  
INSERT INTO Trainer VALUES  
(1,'Mens Training'),  
(2,'Cardio'),  
(3,'Womens Trainig'),  
(4,'Yogo'),  
(5,'Mens Training')
```

## Client Area

```
CREATE TABLE ClientArea (  
    ClientAreaID INT identity (1,1) PRIMARY KEY,  
    City VARCHAR(20),  
    Suburb VARCHAR(30),  
    ClientID int FOREIGN KEY References Clients(ClientID)  
)  
INSERT INTO ClientArea VALUES  
( 'Hamilton', 'Rototuna', 1),  
( 'Hamilton', 'Central', 2),  
( 'Hamilton', 'Nawton', 5),  
( 'Auckland', 'Mount Eden', 7),  
( 'Wellington', 'Te Aro', 9),  
( 'Wellington', 'Karori', 3),  
( 'Christchurch', 'Riccarton', 4),  
( 'Christchurch', 'Sumner', 6),  
( 'Dunedin', 'North Dunedin', 8),  
( 'Dunedin', 'St Clair', 10),  
( 'Tauranga', 'Papamoa', 11),  
( 'Tauranga', 'Mount Maunganui', 12),  
( 'Auckland', 'Papakura', 13),  
( 'Hamilton', 'Hamilton East', 14),  
( 'New Plymouth', 'Fitzroy', 16),  
( 'New Plymouth', 'Bell Block', 15);
```

## Trainer Area

```
CREATE TABLE TrainerArea (  
    TrainerAreaID INT identity (1,1) PRIMARY KEY,  
    City VARCHAR(20),  
    Suburb VARCHAR(30),  
    TrainerID int FOREIGN KEY References Trainer(TrainerID)  
)  
INSERT INTO TrainerArea VALUES  
( 'Tauranga', 'Papamoa', 2),  
( 'Tauranga', 'Mount Maunganui', 3),  
( 'Auckland', 'Papakura', 1),  
( 'Hamilton', 'Hamilton East', 4),  
( 'New Plymouth', 'Fitzroy', 5);
```



## Training Sessions

```
CREATE TABLE TrainingSession (  
    TrainingSessionID INT identity (1,1) PRIMARY KEY,  
    DatePlanned DATE,  
    TimePlanned TIME,  
    ClientID int FOREIGN KEY References Clients(ClientID),  
    TrainerID int FOREIGN KEY References Trainer(TrainerID)  
)  
  
INSERT INTO TrainingSession VALUES  
( '2024-05-18', '16:00', 5, 2),  
( '2024-05-18', '10:00', 4, 3),  
( '2024-05-18', '18:00', 3, 1),  
( '2024-05-19', '10:00', 10, 3),  
( '2024-05-19', '10:00', 13, 2),  
( '2024-05-19', '14:00', 15, 1),  
( '2024-05-20', '10:30', 9, 1),  
( '2024-05-20', '12:00', 10, 4);
```

## Display the contents of each table

### Employees

	EmployeeID	FirstName	LastName	Address	Gender	DateOfBirth	EmployeePosition	EmployeeContract
1	1	George	Russell	123 Maple Street	M	1995-02-19	Trainer	Part Time
2	2	Lewis	Hamilton	456 Avalon Drive	M	1989-04-09	Trainer	Full Time
3	3	Jamie	Chadwick	212 Dowing Street	F	1999-04-19	Trainer	Part Time
4	4	James	Johnson	567 Birch Lane	M	1987-09-25	Trainer	Casual
5	5	Sophia	Williams	321 Elm Street	F	1993-11-12	Trainer	Part Time
6	6	Natasha	Fernando	934 Pragma Rise	F	1998-08-17	Admin	Full Time
7	7	John	Cena	268 Mount Road	O	1985-02-20	Help Desk	Casual
8	8	Alonso	Fernando	98 Cross Road	M	2000-01-04	Sales	Full Time
9	9	Emma	Smith	789 Oak Avenue	F	1990-06-15	Admin	Full Time
10	10	Michael	Brown	101 Pine Road	M	1983-03-30	Marketing	Full Time
11	11	Olivia	Jones	444 Cedar Court	F	1988-07-22	Marketing	Casual
12	12	Daniel	Garcia	876 Walnut Drive	M	1996-02-10	Admin	Full Time

### Package Type

	PackageTypeID	PackageDetail
1	1	Weight Loss
2	2	Weight Gain
3	3	Muscle Building
4	4	Yoga
5	5	Strength Building

## Clients

	ClientID	FirstName	LastName	Address	Gender	DateOfBirth	PackageTypeID
1	1	Lance	Stroll	12 Elmo Street	M	1997-04-01	5
2	2	Emily	Martinez	555 Maple Avenue	F	1994-04-05	4
3	3	Alexander	Anderson	777 Oak Street	M	1991-08-20	2
4	4	Ava	Hernandez	888 Birch Road	F	1986-12-10	1
5	5	William	Gonzalez	999 Elm Drive	M	1984-05-18	1
6	6	Mia	Lopez	111 Pine Lane	F	1989-09-28	2
7	7	Ethan	Perez	222 Cedar Avenue	M	1995-03-15	5
8	8	Charlotte	Robinson	333 Walnut Road	F	1992-07-25	3
9	9	Liam	Taylor	444 Maple Drive	M	1988-11-05	3
10	10	Amelia	Clark	666 Oak Lane	F	1993-01-12	1
11	11	Benjamin	Lewis	777 Birch Street	M	1987-06-30	3
12	12	Harper	Walker	888 Elm Avenue	F	1990-10-22	4
13	13	Lucas	Hall	999 Pine Road	M	1985-04-08	5
14	14	Evelyn	Young	121 Cedar Lane	F	1996-02-18	4
15	15	Logan	Scott	232 Walnut Street	M	1983-08-15	1
16	16	Avery	King	343 Maple Road	F	1988-12-05	2

## Trainer

	TrainerID	EmployeeID	TrainingSpeciality
1	1	1	Mens Training
2	2	2	Cardio
3	3	3	Womens Trainig
4	4	4	Yogo
5	5	5	Mens Training



## Client Area

	ClientAreaID	City	Suburb	ClientID
1	1	Hamilton	Rototuna	1
2	2	Hamilton	Central	2
3	3	Hamilton	Nawton	5
4	4	Auckland	Mount Eden	7
5	5	Wellington	Te Aro	9
6	6	Wellington	Karori	3
7	7	Christchurch	Riccarton	4
8	8	Christchurch	Sumner	6
9	9	Dunedin	North Dunedin	8
10	10	Dunedin	St Clair	10
11	11	Tauranga	Papamoa	11
12	12	Tauranga	Mount Maunganui	12
13	13	Auckland	Papakura	13
14	14	Hamilton	Hamilton East	14
15	15	New Plymouth	Fitzroy	16
16	16	New Plymouth	Bell Block	15

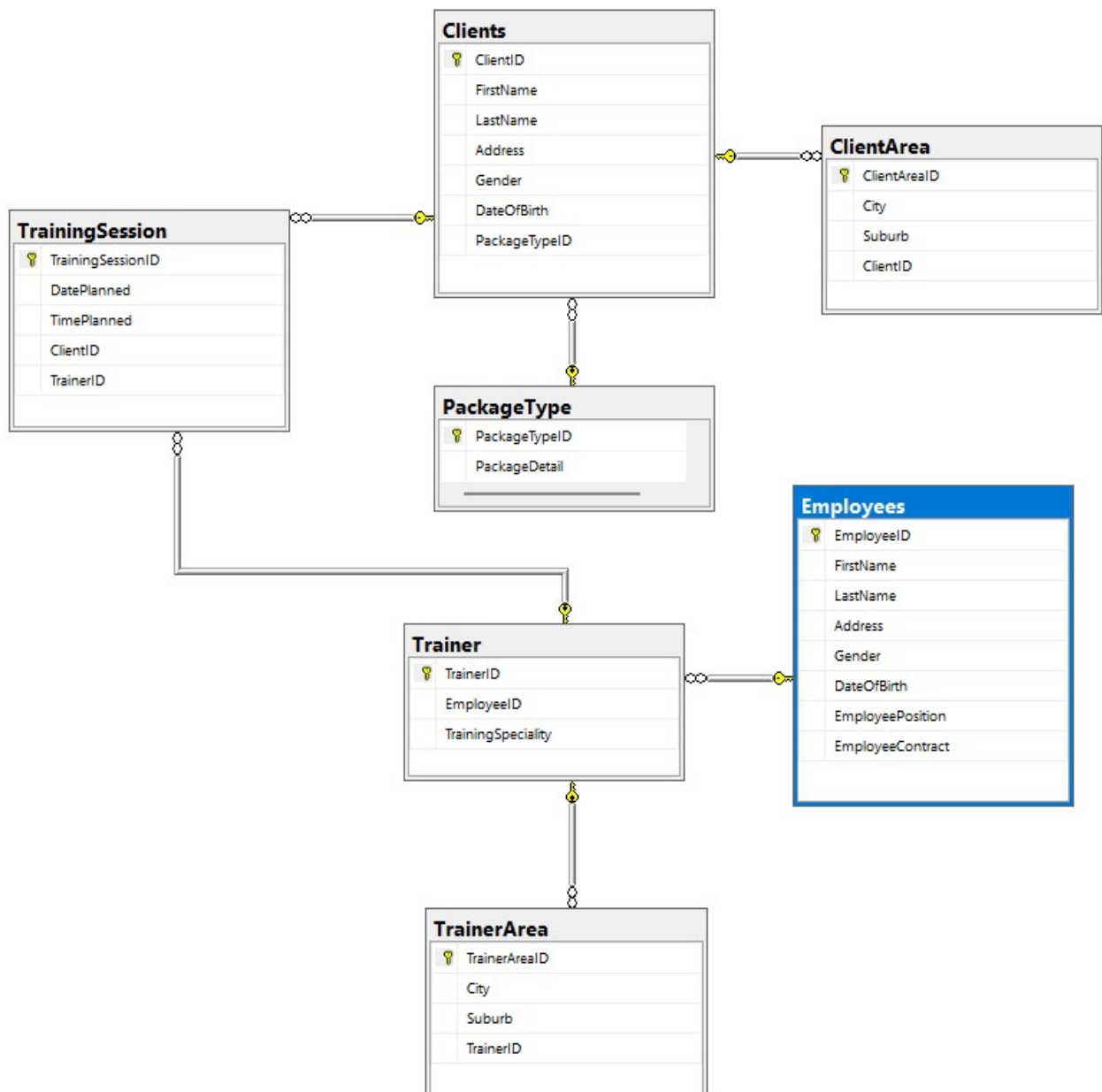
## Trainer Area

	TrainerAreaID	City	Suburb	TrainerID
1	1	Tauranga	Papamoa	2
2	2	Tauranga	Mount Maunganui	3
3	3	Auckland	Papakura	1
4	4	Hamilton	Hamilton East	4
5	5	New Plymouth	Fitzroy	5

## Training Sessions

	TrainingSessionID	DatePlanned	TimePlanned	ClientID	TrainerID
1	1	2024-05-18	16:00:00.0000000	5	2
2	2	2024-05-18	10:00:00.0000000	4	3
3	3	2024-05-18	18:00:00.0000000	3	1
4	4	2024-05-19	10:00:00.0000000	10	3
5	5	2024-05-19	10:00:00.0000000	13	2
6	6	2024-05-19	14:00:00.0000000	15	1
7	7	2024-05-20	10:30:00.0000000	9	1
8	8	2024-05-20	12:00:00.0000000	10	4

## Database Diagram



**THANK YOU**