Access Database

USING MICROSOFT ACCESS

Brief

The aim of this project was to create a sample database using Microsoft Access and join tables to form relationships between them.

The theme of the project was to build a database for a gym. As such five tables were created: Bookings, Classes, Instructors, Members and Memberships. Tables were joined with common keys to allow for relationships between tables.

Four forms (Class Booking, New Class, New Instructor and New Member) were created to allow for ease of input into the database and to create a user friendly appearance for members and staff.
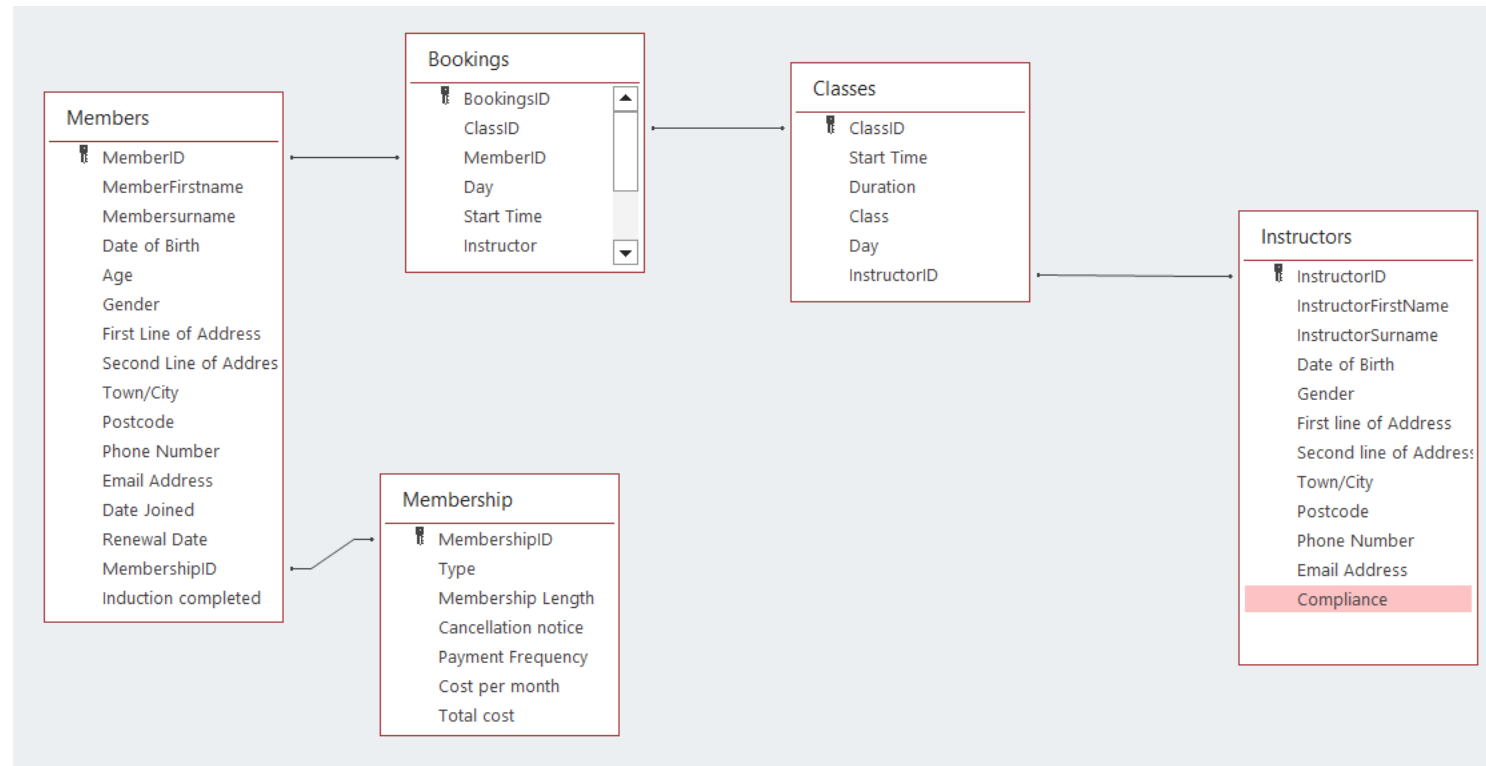
Finally, four queries (Attendance Analysis, Class Roster, Instructor Schedule and Member Booking) were created using SQL joins between tables to allow for reports to be generated

Tables

Bookings

Field Name	Data Type
BookingsID	AutoNumber
ClassID	Short Text
MemberID	Short Text
Day	Short Text
Start Time	Short Text
Instructor	Number
Class	Short Text
MemberFirstname	Short Text
MemberSurname	Short Text
InstructorID	Short Text

Classes

Field Name	Data Type
ClassID	AutoNumber
Start Time	Short Text
Duration	Short Text
Class	Short Text
Day	Short Text
InstructorID	Number

Instructors

Field Name	Data Type
InstructorID	AutoNumber
InstructorFirstName	Short Text
InstructorSurname	Short Text
Date of Birth	Date/Time
Gender	Short Text
First line of Address	Short Text
Second line of Address	Short Text
Town/City	Short Text
Postcode	Short Text
Phone Number	Short Text
Email Address	Short Text
Compliance	Yes/No

Members

Field Name	Data Type
MemberID	AutoNumber
MemberFirstname	Short Text
Membersurname	Short Text
Date of Birth	Date/Time
Age	Short Text
Gender	Short Text
First Line of Address	Short Text
Second Line of Address	Short Text
Town/City	Short Text
Postcode	Short Text
Phone Number	Short Text
Email Address	Short Text
Date Joined	Date/Time
Renewal Date	Date/Time
MembershipID	Number
Induction completed	Yes/No

Membership

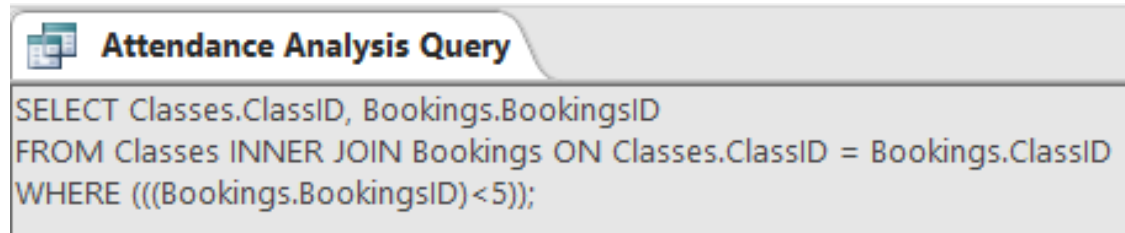| Field Name	Data Type
MembershipID	AutoNumber
Type	Short Text
Membership Length	Short Text
Cancellation notice	Short Text
Payment Frequency	Short Text
Cost per month	Short Text
Total cost	Short Text

Screenshots showing the format of the five tables and key fields.

Relationship
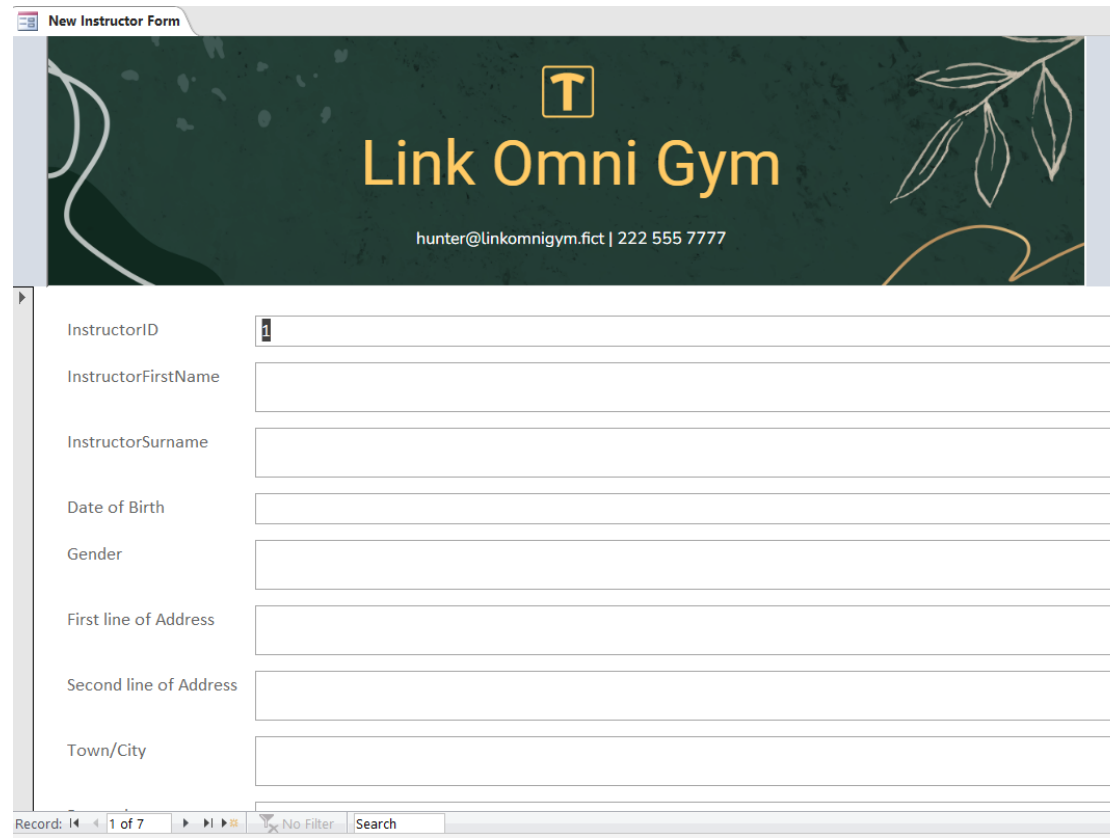
Screenshot showing the relationships between tables.

Queries

Attendance Analysis Query

SELECT Classes.ClassID, Bookings.BookingsID
FROM Classes INNER JOIN Bookings ON Classes.ClassID = Bookings.ClassID
WHERE (((Bookings.BookingsID)<5));

A screenshot example of the Attendance Analysis query using SQL

Forms

Screenshot showing the New Instructor Form