

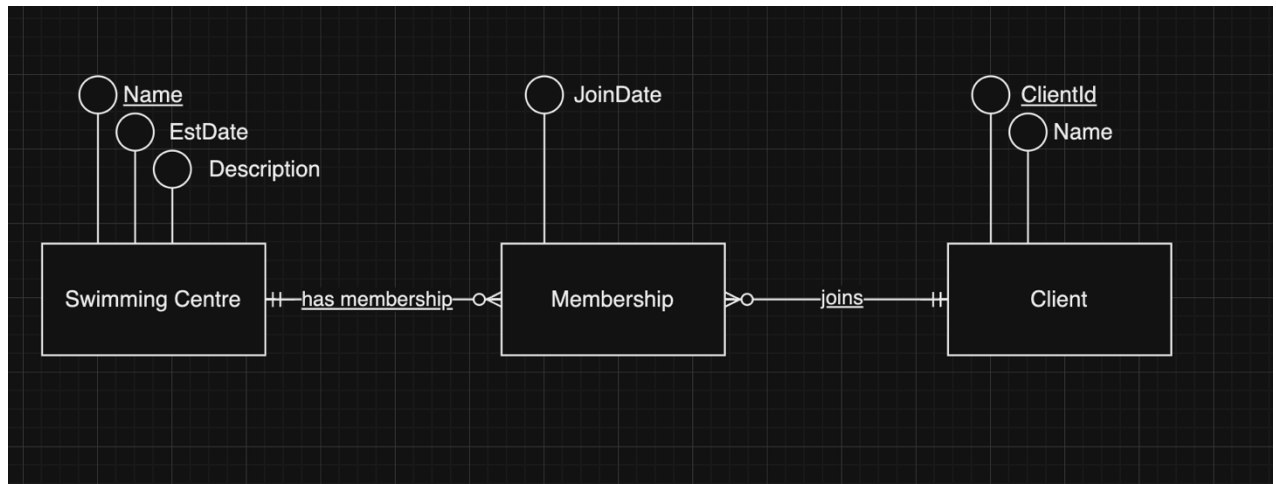
INF10025 Data Management and Analytics

Task 5 – Pass Submission

Student Number: 104071453

Student Name: Marco Giacoppo

Pass 5a



Pass 5b

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pass 5b — SQL Syntax Pass Task 5
1  SwimmingCentre (Name, EstDate, Description)
2  Primary Key Name
3
4  Client (ClientId, Name)
5  Primary Key ClientId
6
7  Membership (CentreName, JoinDate, ClientId)
8  Primary Key CentreName, ClientId
9  Foreign Key CentreName REFERENCES SwimmingCentre(Name)
10 Foreign Key ClientId REFERENCES Client(ClientId)
11
12
```

Pass 5c

```

1  CREATE TABLE SwimmingCentre (
2      Name VARCHAR(255) PRIMARY KEY,
3      EstDate DATE,
4      Description TEXT
5  );
6
7  CREATE TABLE Client (
8      ClientId INT PRIMARY KEY,
9      Name VARCHAR(255)
10 );
11
12 CREATE TABLE Membership (
13     ClientId INT,
14     CentreName VARCHAR(255),
15     JoinDate DATE,
16     PRIMARY KEY (ClientId, CentreName),
17     FOREIGN KEY (ClientId) REFERENCES Client(ClientId),
18     FOREIGN KEY (CentreName) REFERENCES SwimmingCentre(Name)
19 );

```

Pass 5d

Normalization is a process used in database design to organize tables and reduce redundancy and dependency within the data. The goal is to ensure data integrity by eliminating or minimizing data anomalies such as insertion, update, and deletion anomalies.

Pass 5e

CustId	Name	Phone	CarRego	MakeModel	StartDate	ReturnDate
125	John Coles	0401112233	1AU8HK	Mazda 3	31/08/2020	7/09/2020
125	John Coles	0401112233	1LM3AB	Hyundai i30	14/11//2020	21/11/2020
278	Erin Trump	0466121455	1AU8HK	Mazda 3	12/09/2020	19/09/2020
278	Erin Trump	0466121455	1KA2CA	Toyota Camry	1/10/2020	8/10/2020
278	Erin Trump	0466121455	1CZ8JK	Mazda 3	10/11/2020	12/11/2020
278	Erin Trump	0466121455	1AU8HK	Mazda 3	26/11/2020	1/12/2020
721	Emma Knox	0423544117	1LM3AB	Hyundai i30	10/09/2020	13/09/2020