



## Database Analysis & Design INF10002

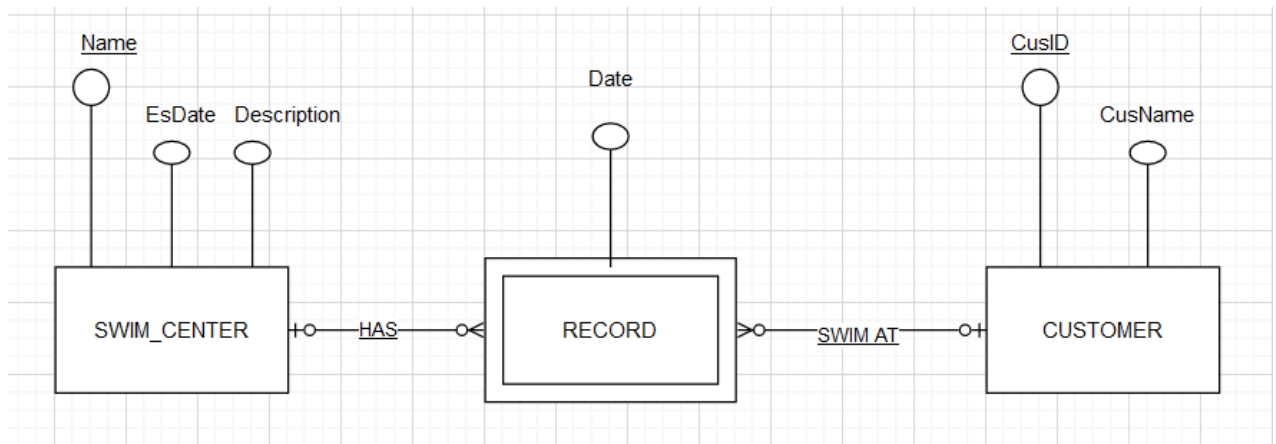
### Task 5 – Pass Submission

Student Number: 103542974

Student Name: Hai Hoang Le

#### Pass 5a

Paste your screen capture(s) for this task here.



#### Pass 5b

Paste your screen capture(s) for this task here.

SWIM\_CENTER(Name, EsDate, Description)

PRIMARY KEY (NAME)

CUSTOMER(CusID,CusName)

PRIMARY KEY(CusID)

RECORD(Name, CusID, Date)

FOREIGN KEY(Name) references SWIM\_CENTER

FOREIGN KEY(CusID) references CUSTOMER

#### Pass 5c

Paste your screen capture(s) for this task here.

```

CREATE TABLE SWIM_CENTER (
    Name VARCHAR(50) PRIMARY KEY,
    EsDate DATE,
    Description TEXT
);

CREATE TABLE CUSTOMER (
    CusID INT PRIMARY KEY,
    CusName VARCHAR(50)
);

CREATE TABLE RECORD (
    Name VARCHAR(50),
    CusID INT,
    Date DATE,
    PRIMARY KEY (Name, CusID, Date),
    FOREIGN KEY (Name) REFERENCES SWIM_CENTER(Name),
    FOREIGN KEY (CusID) REFERENCES CUSTOMER(CusID)
);

```

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### Pass 5d

Paste your screen capture(s) for this task here.

Normalization is a process of organizing data in a database so that it is structured in a way that reduces redundancy and improves data integrity. The goal of normalization is to minimize data duplication by breaking down large tables into smaller, more manageable tables that are interconnected through relationships.

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### Pass 5e

Paste your screen capture(s) for this task here.

CustId	Name	Phone	CarRego	MakeModel	StartDate	ReturnDate
125	John	401112233	1AU8HK	Mazda 3	31/08/2020	7/9/2020
125	John	401112233	1LM3AB	Hyundai i30	14/11/2020	21/11/2020
278	Erin	466121455	1AU8HK	Mazda 3	19/09/2020	12/11/2020
278	Erin	466121455	1KA2CA	Toyota Camry	1/10/2020	8/10/2020
278	Erin	466121455	1CZ8JK	Mazda 3	10/11/2020	12/11/2020
278	Erin	466121455	1AU8HK	Mazda 3	26/11/2020	1/12/2020

721	Emma	423544117	1LM3AB	Hyundai i30	10/9/2020	13/09/2020
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