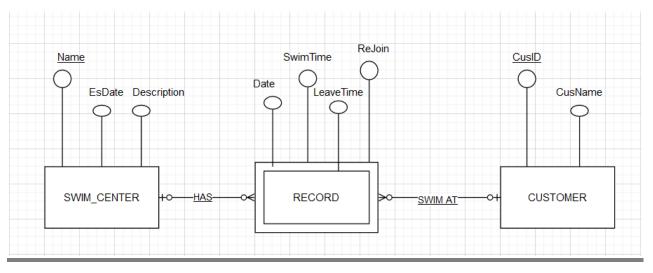


# Task 5 - Credit Submission

Student Number: 103542974 Student Name: Hai Hoang Le

#### Credit 5a

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, SwimTime, LeaveTime, Rejoin)

PRIMARY KEY (Name, CusID)

FOREIGN KEY (Name) references SWIM\_CENTER

FOREIGN KEY (CusID) references CUSTOMER

SWIM\_CENTER (Name, EsDate, Description)

Hoa Binh, 15/3/2023, Premium

Landmark, 23/06/2016, Middle

Bitexco, 21/8/2016, Low\_cost

CUSTOMER(CusID,CusName)

2802, Hai Le

1968, Harry Potter

2023, Luccas Dio

RECORD (Name, CusID, Date, SwimTime, LeaveTime, Rejoin)

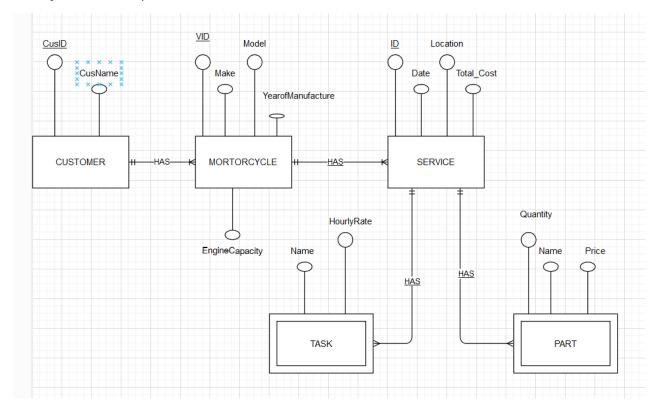
Hoa Binh, 2802, 2/28/2022, 1300, 1500, 14/3/2022

Landmark, 2023, 28/12/2019, 700, 830, 7/1/2022

Bitexco, 1968, 14/2/2023,1500, 2600, 15/2/2023

### **Credit 5b**

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



#### Credit 50

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

CUSTOMER (CusID, CusName)

```
MORTORCYCLE (VID, Make, Model, YearofManufacture, EngineCapacity, CusID)
PRIMARY KEY (VID, CusID)
FOREIGN KEY (CusID) references CUSTOMER
SERVICE (ID, Date, Location, Total_Cost, VID)
PRIMARY KEY (VID, ID)
FOREIGN KEY (VID) references MOTORCYCLE
TASK (Name, HourlyRate, ID)
FOREIGN KEY (ID) references SERVICE
PART (Name, Quantity, Price, ID)
FOREIGN KEY (ID) references SERVICE
Credit 5d
Paste your screen capture(s) for this task here.
CREATE TABLE CUSTOMER (
 CusID INT PRIMARY KEY,
 CusName VARCHAR(50)
);
CREATE TABLE MOTORCYCLE (
 VID INT,
 Make VARCHAR(50),
 Model VARCHAR(50),
 YearofManufacture INT,
 EngineCapacity INT,
 CusID INT,
 PRIMARY KEY (VID, CusID),
 FOREIGN KEY (CusID) REFERENCES CUSTOMER(CusID)
```

```
);
CREATE TABLE SERVICE (
 ID INT,
 Date DATE,
 Location VARCHAR(50),
 Total_Cost DECIMAL(10, 2),
 VID INT,
 PRIMARY KEY (VID, ID),
 FOREIGN KEY (VID) REFERENCES MOTORCYCLE(VID)
);
CREATE TABLE TASK (
 Name VARCHAR(50),
 HourlyRate DECIMAL(10, 2),
 ID INT,
 FOREIGN KEY (ID) REFERENCES SERVICE(ID)
);
CREATE TABLE PART (
 Name VARCHAR(50),
 Quantity INT,
 Price DECIMAL(10, 2),
 ID INT,
 FOREIGN KEY (ID) REFERENCES SERVICE(ID)
);
Credit 5e
Paste your screen capture(s) for this task here.
```

The tables in 3NF will be

Table 1: Customer

Cusld	Name	Phone
125	John Coles	0401112233
278	Erin Trump	0466121455
721	Emma Knox	0423544117

Table 2: Car

CarRego	MakeModel
1AU8HK	Mazda 3
1LM3AB	Hyundai i30
1KA2CA	Toyota
1CZ8JK	Mazda 3

Table 3: Rental

CustId	CarRego	StartDate	ReturnDate
125	1AU8HK	31/08/2020	14/11/2020
125	1LM3AB	7/09/2020	21/11/2020
278	1AU8HK	12/09/2020	1/10/2020
278	1KA2CA	10/11/2020	26/11/2020
278	1CZ8JK	12/11/2020	1/12/2020
721	1LM3AB	10/09/2020	13/09/2020

### **Credit 5f**

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

# For the Purchase Transaction:

**BEGIN TRANSACTION** 

DECLARE @prodCost money, @qtyInStock int

SELECT @prodCost = PricePerOne \* ABS(ProdQty), @qtyInStock = QtyInStock - ABS(ProdQty)

FROM Product WHERE ProdID = 'G43546'

UPDATE Product SET QtyInStock = @qtyInStock WHERE ProdID = 'G43546'

COMMIT TRANSACTION

# For the Return Transaction

**BEGIN TRANSACTION** 

DECLARE @prodCost money, @qtyInStock int

SELECT @prodCost = PricePerOne \* ABS(ProdQty), @qtyInStock = QtyInStock + ABS(ProdQty)

FROM Product WHERE ProdID = 'G43546'

UPDATE Product SET QtyInStock = @qtyInStock WHERE ProdID = 'G43546'

**COMMIT TRANSACTION**