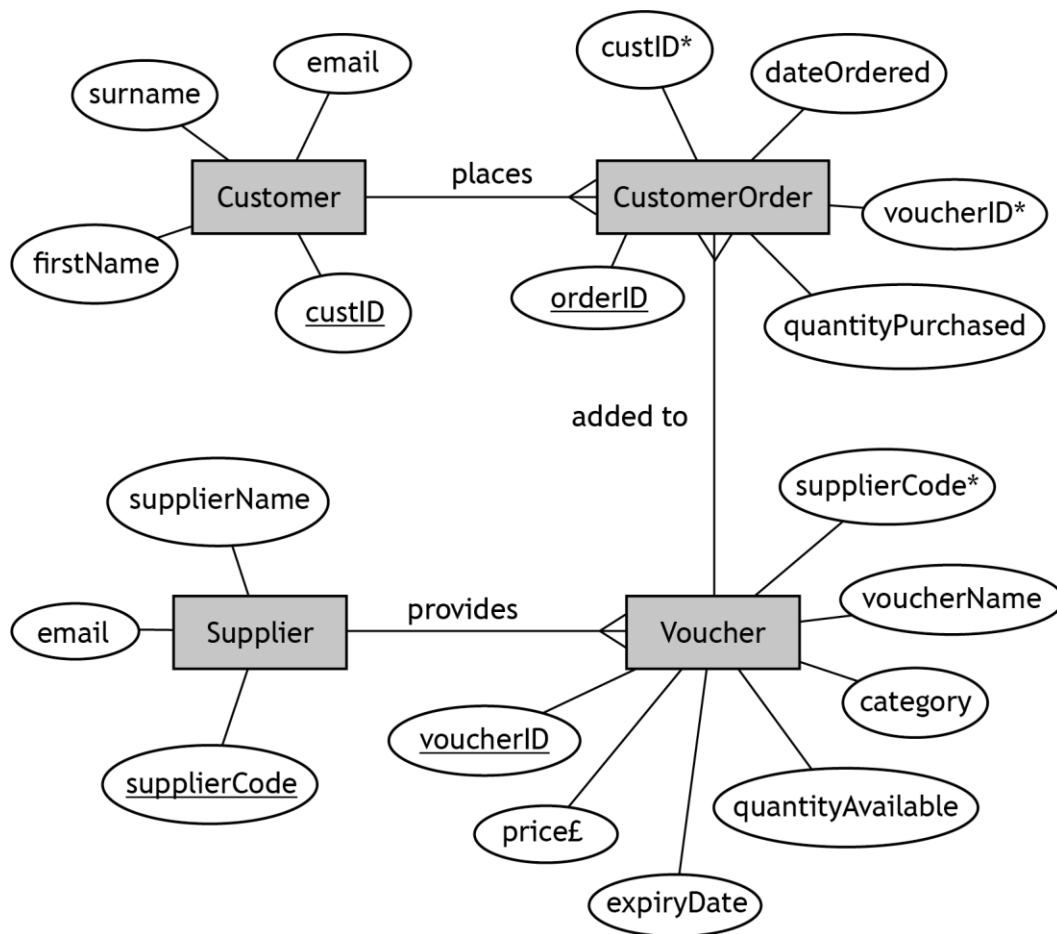# Task 2: database design and development (part B)

The entity relationship diagram for the MyTreat database is shown below.

The design is then implemented.

Your teacher or lecturer will provide you with a completed and populated database file.

2c   MyTreat would like to know how much money is being spent on the different types of escape room vouchers.

A query is required to find customers who have purchased vouchers for an escape room from the 'Adventure' category. The output should include the amount of money spent by the customer on the voucher.

Implement the SQL statement to produce the following output.

(3 marks)

firstName	surname	voucherID	Amount of Money Spent on Voucher £
Neville	Wilson	V368	32
Bailey	Donald	V369	80
Aziah	Moqsud	V890	172
Chukka	Radebe	V890	86
Becky	Bennett	V890	344

2d MyTreat would like to know how many vouchers are still available for voucher ID V543.

Implement the SQL statement(s) to produce the following output.

(4 marks)

voucherID	supplierName	voucherName	Still Available
V543	SkatePark	Skate park and lunch	198

For 2c and 2d print evidence of:

♦ the implemented SQL statement(s)
♦ the output produced

Include your name and candidate number on all evidence.

2e A query is designed to find the number of customers who bought a voucher from the 'Family' category that costs less than £15.00.

The expected output from the query is shown below.

supplierName	voucherName	price£	Number of Customers
Cuddle World	Teady Bears' Picnic	10.00	4
WonderPlay	Trampoline	4.00	3
WonderPlay	Softplay and lunch for 2	12.00	2
Family Fun Club	Softplay and cake	6.00	1

The SQL statement shown below was implemented.

```
SELECT Supplier.supplierName, Voucher.voucherName,
Voucher.price£, Sum(Voucher.price£) AS [Number of Customers]
FROM CustomerOrder, Supplier, Voucher
WHERE CustomerOrder.voucherID=Voucher.voucherID AND
Supplier.supplierCode=Voucher.supplierCode AND
Voucher.price£<15 AND Voucher.category="Family"
GROUP BY Supplier.supplierName, Voucher.voucherName,
Voucher.price£;
```

The query to test the above SQL statement is provided with the database.

Test the SQL statement by running the query.

Amend the query to produce the expected output as shown above.

(2 marks)

Print evidence of the amended SQL statement.

Include your name and candidate number on all evidence.

2f   The `Voucher` table has no validation.

Evaluate one potential problem that may occur when adding new data to this table.

(1 mark)

Candidate name_____ Candidate number_____