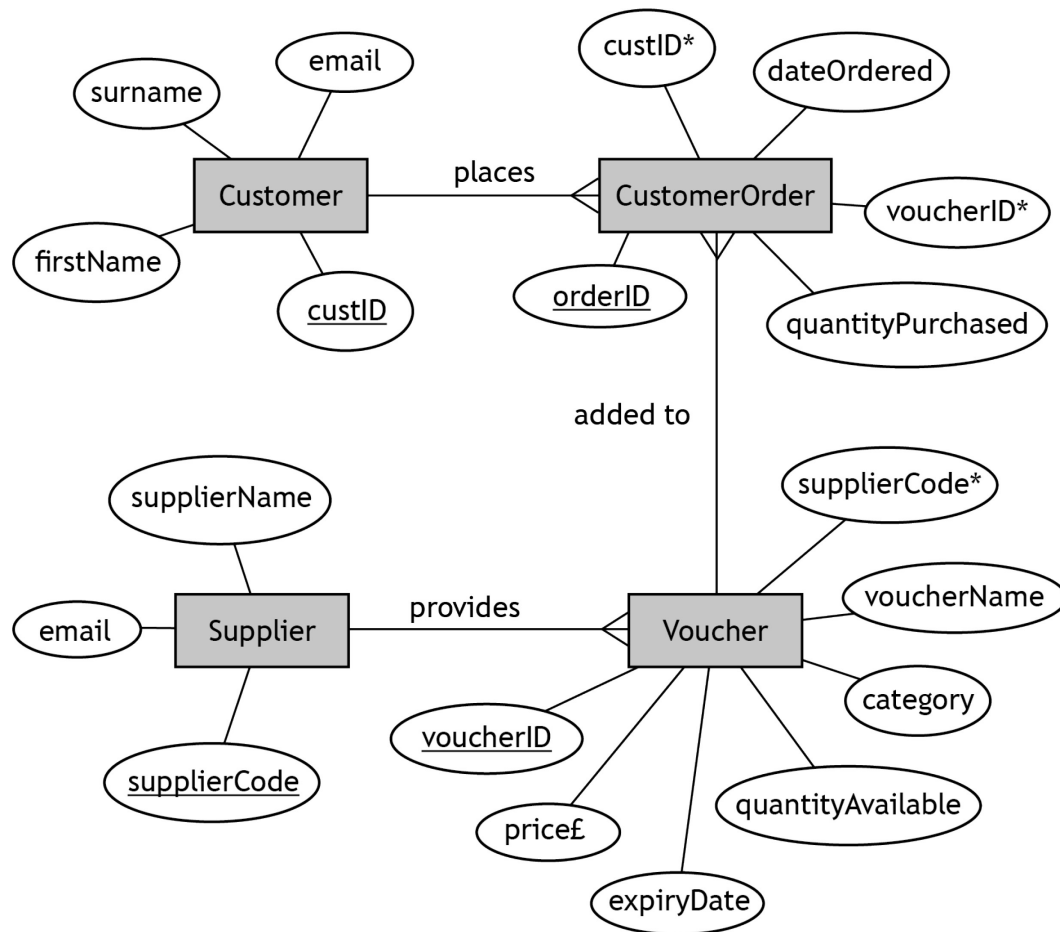


Task 2: database design and development (part B)

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

- 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.

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_____