National 5
Coursework
Assessment Task

National 5 Computing Science
Assignment
Assessment task
Task 1: database design and development (part B)

This document provides information for teachers and lecturers about the coursework component of this course in terms of the skills, knowledge and understanding that are assessed. It must be read in conjunction with the course specification.

Valid for session 2019-20 only.

This assessment is given to centres in strictest confidence. You must keep it in a secure place until it is used.

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Task 1: database design and development (part B)

1b Your teacher or lecturer will provide you with a database file containing two linked tables.

Using the data dictionary below, complete the relational database by:

- identifying two fields where the validation shown below has yet to be applied
- adding the validation to the two identified fields

(2 marks)

Entity: Customer					
Attribute name	**Key**	**Type**	**Size**	**Required**	**Validation**
customerID	PK	number		Y	
forename		text	40	Y	
surname		text	50	Y	
address		text	100	N	
telephoneNo		text	11	N	Length = 11

Entity: FlowerOrder					
Attribute name	**Key**	**Type**	**Size**	**Required**	**Validation**
orderID	PK	text	10	Y	
dateDue		date		Y	
price		number		Y	Range: >= 5.00 and <= 50.00
flowerType		text	8	Y	Restricted choice: rose, lily, tulip, daffodil
bunchSize		text	6	Y	Restricted choice: small, medium, large
chocolates		Boolean		Y	
message		text	200	N	
customerID	FK	number		Y	Existing customerID from Customer table

Print evidence to show that you have added the validation to the database to match the data dictionary requirements.

1c (i) A customer would like to change their order from ‘rose’ to ‘tulip’. The price of the order will change from £34 to £17. The orderID is CHQ3848.

Implement **one** SQL statement that will make the required changes to the order.

(4 marks)

Print evidence of the SQL statement and the FlowerOrder table, clearly showing that the changes have been implemented.

(ii) A new customer provides their name and telephone number.

Implement an SQL statement that will add their details to the database.

Name:	Richard Glass
Telephone number:	07654029336

(2 marks)

Assign them customerID — 2986.

Print evidence of the SQL statement and the Customer table, clearly showing that the changes have been implemented.

1d Anytime Flowers wants to find the names of all customers who had placed orders for the smallest bunch of flowers.

The following incorrect SQL statement is written.

```
SELECT customerName
FROM Customer, FlowerOrder
WHERE size = "smallest"
AND Customer.customerID = FlowerOrder.customerID;
```

Test this SQL statement.

State two reasons why this SQL statement failed.

(2 marks)

Reason 1
Reason 2

Candidate name_____ Candidate number_____