Task 1: database design and development (part A)

Video bloggers (vloggers) create videos to upload to social media websites. Mirren promotes vloggers across Scotland. She keeps a record of vloggers and the details of their videos. Mirren names each video and rates them on a scale of 1 to 5 (one being the worst and five being the best). Videos may be up to 300 seconds in length.

Mirren decides to store these details in a database. The completed analysis of inputs is shown below.

Vlogger details:	Video details:
vloggerID forename surname username expertise	videoID vloggerID videoName duration dateCreated content rating

1a Complete the data dictionary for the Video entity.

(5 marks)

Entity name: Video					
Attribute name	**Key**	**Type**	**Size**	**Required**	**Validation**
videoID	PK	number		Y	
vloggerID	FK	number		Y	existing vloggerID from Vlogger table
videoName		text	30	Y	
duration		number		Y	
dateCreated		date		Y	
content		text	40	Y	
rating		number		Y	Range >=1 and <=5

- Check your answers carefully, as you cannot return to part A after you hand it in.
- When you are ready, hand part A to your teacher or lecturer and collect part B.

Candidate name_____Candidate number_____

Task 1: database design and development (part B)

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

Using the data dictionary below complete the Vlogger table by adding the validation.
(2 marks)

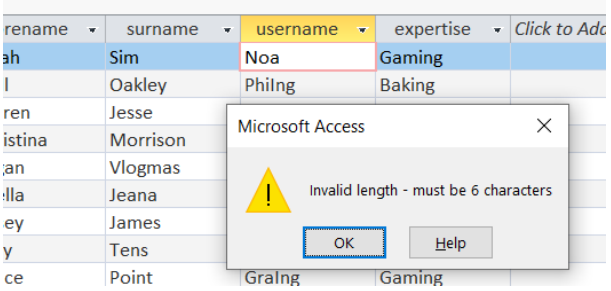
Entity name: Vlogger					
Attribute name	**Key**	**Type**	**Size**	**Required**	**Validation**
vloggerID	PK	number		Y	
forename		text	20	Y	
surname		text	20	Y	
username		text	6	Y	Length=6
expertise		text	15	Y	Restricted choice: Programming, Gaming, Baking, Crafts, Makeup, Clothes

Print evidence to show that you have added both validations to the Vlogger table.

- Check your evidence carefully, as you cannot return to part B after you hand it in.
- When you are ready, hand part B to your teacher or lecturer and collect part C.

Length Check

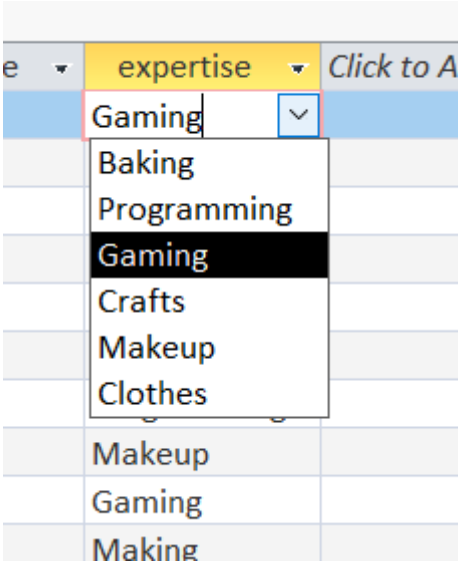
Field Size	6
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	Len([username])=6
Validation Text	Invalid length - must be 6 characters
Required	Yes
Allow Zero Length	Yes
Indexed	No
Unicode Compression	No
IME Mode	No Control
IME Sentence Mode	None
Text Align	General



Restricted Choice

General | Lookup

Display Control	Combo Box
Row Source Type	Value List
Row Source	"Baking";"Programming";"Gaming";"Crafts";"Makeup";"Clothes"
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	Yes
Allow Multiple Values	No
Allow Value List Edits	No
List Items Edit Form	



Task 1: database design and development (part C)

1c Your teacher or lecturer will provide you with a completed database file including data on vloggers and videos.

(i) Mirren wants to advertise the best videos.

She wants to display the username and videoName of all videos with a rating greater than 3.

Implement the SQL statement that will output usernames and videoNames from the Vlogger and Video tables where the rating is greater than 3.

Print evidence of your SQL statement and the output from the query after it has been implemented.

(4 marks)

```
SELECT username, videoname
FROM Vlogger, Video
WHERE rating>3 AND Video.vloggerID = Vlogger.vloggerID;
```

username	videoname
CasIng	Java
JoeIng	Slime
LogIng	Lego
AldIng	Christmas Deco

(ii) One of the videos called "Slime" contains a recipe for slime which does not work. It should be removed from the database.

Implement the SQL statement that will delete the Slime video which has a videoID of 3.

Print evidence of your SQL statement and the Video table after the SQL statement has been implemented.

(2 marks)

DELETE * FROM Video
WHERE videoID=3;

```
DELETE *
FROM Video
WHERE videoID=3;
```

videoID	vloggerID	videoName	duration	dateCreated	content	rating	Click to Add
1	7	C++	60	30/12/2017	Lesson 1 Learn	1	
2	9	Java	30	12/11/2019	Learn Java in 24	4	
4	10	Slime	12	25/04/2020	Glitter Slime	5	
5	7	Lego	8	24/01/2019	Mission 1	5	