The questions on this worksheet have been taken from the OCR A-Level Computer Science Practice Paper 1.1

"3-a-day" A-Level Exam Practice Unit 1 (024)

Question 1

A database stores information about songs on a music streaming service.

One of the tables called `Song` has the fields.

`Title, Artist, Genre, Length`

Give **one** advantage and **one** disadvantage of indexing the field `Artist`.

Advantage ....

....

Disadvantage ....

....

[2]

Question 2

Users can build up playlists of their songs. Another table is created called `Playlist`.

Explain why a third table which we shall call `PlaylistEntry` is needed. You should use an ER diagram to illustrate your answer.

[4]

Question3

A band called *RandomBits* removes their permission for their songs to be streamed.

The company removes all the songs belonging to *RandomBits* from their service.

(i) Identify the law with which the company are complying.

....

....**[1]**

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Answer 1		
- Advantage: Searches of Artist can be performed more quickly. - Disadvantage: The index takes up extra space in the database. (1 per -)	**AO1.2** 2	

Answer 2		
- `Song` and `Playlist` would have a many to many relationship - This is not allowed - Adding a table between them resolves this - Diagram to illustrate this. (1 per -)	**AO3.1** 4	

Answer 3		
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