AI Club data modelling exercise 2019-04-30

Here is some information about a data set and the questions we want to ask.
Model the data as you would for one or more of:
- **A relational database**
- **A key value store such as DynamoDB**
- **A graph database such as Neo4j or Neptune**

Write down any assumptions you make
Show how you would query the data store to ask the questions
Which data model is best for which question?

- A **recording** has a unique **ISRC** (International Standard Recording Code), a **title**, an **artist**.

- An **album** has a unique **UPC** (Universal Product Code), a **title** and an overall **artist** (might be "Various Artists"). A **recording** can appear on many **albums**. Each of these versions of the recording can have a different **track length**. An **album** is released on a specific **release date**.

- An **artist** can appear on many recordings. More than one **artist** can appear on a **recording** (e.g. Catatonia featuring Tom Jones) - therefore the artist that is displayed on the recording may not be the same as an actual artist.

- You can assume all artist names, ISRCs and UPCs are unique for this exercise
- You can assume a recording doesn't appear twice on an album

The questions we want to ask of the data are:

- I have an ISRC - Give me the titles of all the albums this recording is on
- I have an artist name - give me a list of all the recordings they have on new albums released in 2019
- I have a UPC - Give me the title of the album
- Find me all albums released since the start of the year
- Find me all the artists that have collaborated with this artist