**IN1010 – Data Modelling Tutorial – Exercise 1 – NME Magazine**

NME magazine keeps a database of recording artists and their albums (being a snooty bunch they don't care about singles) with the following data requirements.

Artists are given an artist number and they keep their name, date-of birth, contact number and their publicists name. Each recording (track) has a track name, duration and recording date. Albums are a collection of tracks; they are identified by their serial number and have a name and a release date. Artists are signed to Record Labels under Contracts. Each Record Label has a name and an address. Contracts have a start date and an end date. Record Labels release Artist's Albums.

1) In Visual Paradigm open a new project and name it NME.

2) Add an ERD diagram to the project.

3) Create a table called Artist. Decide what attributes should be included in the table and what would make the best primary key. Create the attributes and define the primary key.

4) Create a table called Track and define the attributes and primary key.

5) Decide what type of relationship should exist between Artist and Track. Which table should be at the many end? Is the relationship mandatory? Create the relationship.

6) Create a table called Contract, define the attributes and key, and create a relationship with Artist, taking care to think about the characteristics of the relationship.

7) Create a table called Record\_Lable and give it a relationship to the Contract table.

8) Should there be a relationship between Record\_Lable and Album? If you think there should be, create a relationship.

A diagram of a data flow

Description automatically generated