

# COMP23111 - Lab Exercise 2

James, Peach

**ID:** 8974863

November 4, 2014

## 1 Part 1 - Questions

**1.1 Q: What kind of attribute is the telephone attribute of the Manager entity type?!**

A: multivalued

**1.2 Q: What kind of entity type is ContractInfo? What condition causes an entity type to be categorised as being of this kind?**

A: Weak entity, a weak entity doesn't have a single unique identifying key. It is only unique when in the context of an identifying relationship.

**1.3 Q: What kind of relationship type is HasContract? What condition causes a relationship type to be categorised as being of this kind?!**

A: It is an identifying relationship. An identifying relationship is one that allows a weak entity to be uniquely specified. I.e. it is a relationship that encompasses and defines the weak entity.

**1.4 Q: What kind of attribute is the period attribute of the ContractInfo entity type? What does the dashed underline underneath it mean?**

A: The attribute is a compound attribute with composite sub parts (date\_from, date\_to). The underline symbolises this attribute as a weak key for the entity.

**1.5 Q: What kind of attribute is the duration attribute of the ContractInfo entity type? What does the dashed oval that encircles it mean?**

A: A derived attribute the value of which is not saved but calculated from other attributes

**1.6 Q: MasterTrack entity**

A master track is an initial recording described with a working\_title, working\_length and a unique identifying track\_id. Each track has one or more associated artists that produced it. The master track also has a sound engineer that helped produce the track. A master track also can have many finished tracks associated with it of different versions specific for this MasterTrack

## 2 Part 2 - Example ER-diagram

A Dia diagram is included below:

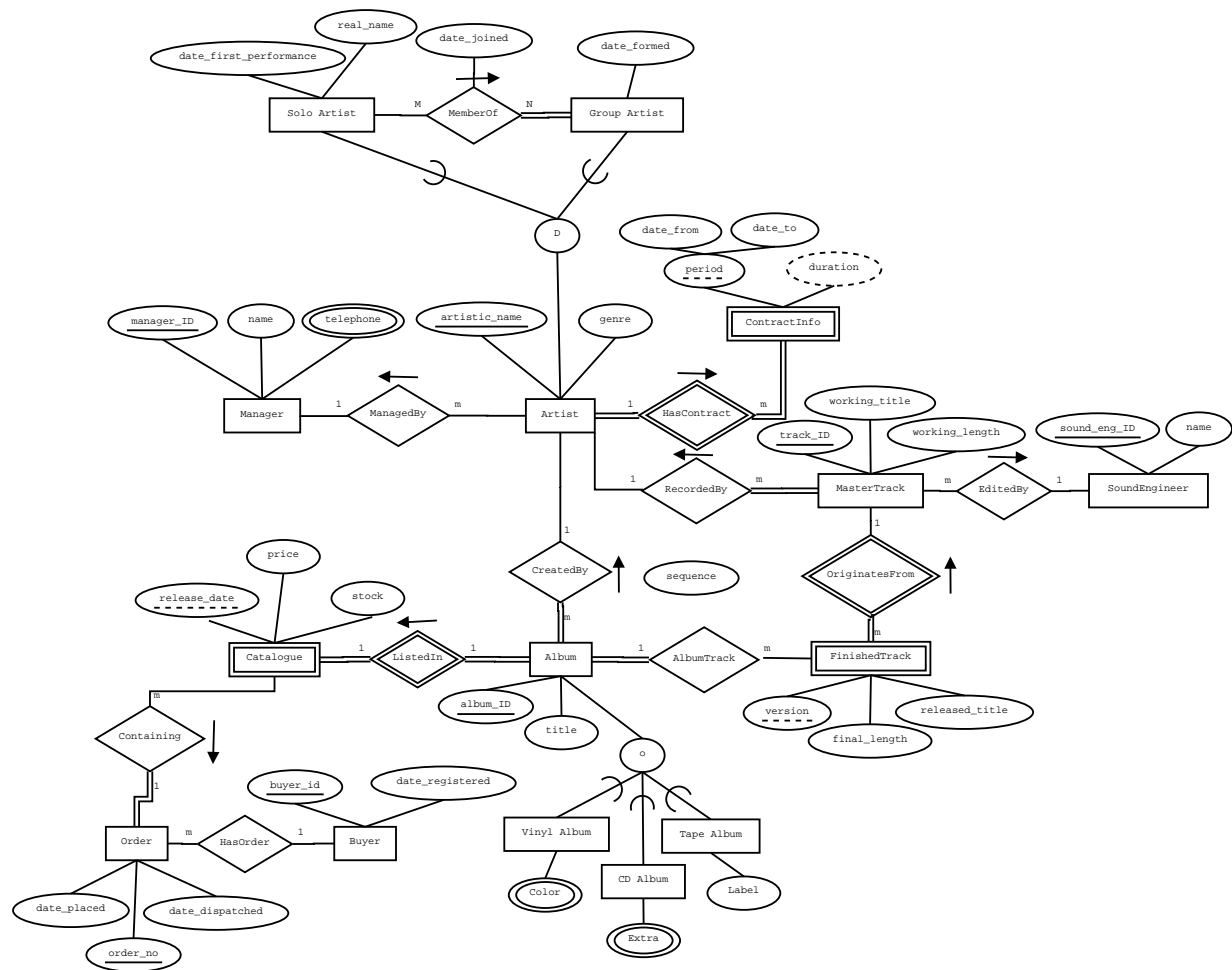


Figure 1: Database Diagram