

# COMP23111 - Lab Exercise 3

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## 1 Part 1 - SQL Statements

### 1.1 A listing of the data & structure of each table

Manager	( <u>manager_ID</u> , name)
ManPhone	( <u>manager_ID</u> [fk:Manager.manager_ID], telephone)
Artist	( <u>artistic_name</u> , genre, managedBy [fk:Manager.manager_ID])
Album	( <u>album_ID</u> , title, createdBy [fk:Artist.artistic_name])
MasterTrack	( <u>track_ID</u> , working_title, working_length, recordedBy [fk:Artist.artistic_name], editedBy [fk:SoundEngineer.sound_eng_id])
SoundEngineer	( <u>sound_eng_ID</u> , name)
ContractInfo	(hasContract [fk:Artist.artistic_name], <u>date_from</u> , <u>date_to</u> , duration [derived as (date_to - date_from)])
FinishedTrack	( <u>originatesFrom</u> [fk:MasterTrack.track_ID], <u>version</u> , released_title, final_length)
AlbumTrack	( <u>track_ID</u> [fk:FinishedTrack.originatesFrom], <u>version</u> [fk:FinishedTrack.version], sequence)
Catalogue	( <u>release_date</u> , <u>album_ID</u> [fk:Album_ID], price, stock)
Buyer	( <u>buyer_ID</u> , date_registered)
Order	( <u>order_no</u> , date_placed, date_dispatched, buyer_ID [fk:Buyer.buyer_ID])
OrderItem	( <u>order_no</u> [fk:Order.order_no], <u>release_date</u> [fk:Catalogue.release_date], <u>album_ID</u> [fk:Album_ID])
SoloArtist	( <u>artistic_name</u> [fk:Artist.artistic_name], <u>date_first_performance</u> , real_name)
GroupArtist	( <u>artistic_name</u> [fk:Artist.artistic_name], <u>date_formed</u> )
MemberOf	( <u>solo_artistic_name</u> [fk:Artist.artistic_name], <u>group_artistic_name</u> [fk:Artist.artistic_name], <u>date_joined</u> )
VinylAlbum	( <u>album_ID</u> [fk:Album.album_ID])
VinylAlbumColor	( <u>album_ID</u> [fk:VinylAlbum.album_ID], color)
CDAlbum	( <u>album_ID</u> [fk:Album.album_ID])
CDAlbumExtra	( <u>album_ID</u> [fk:VinylAlbum.album_ID], extra)
TapeAlbum	( <u>album_ID</u> [fk:Album.album_ID], label)

## 2 Part 2 - Example ER-diagram

A Dia diagram is included below: