

IFM02B2

INFORMATICS 2B

Practical Assignment P24IFM2B-01

Due: 24 July 2024, 08:00



Competency Checklist (Your Practical Should Demonstrate the Following)

# Entity Relationship Diagram	# Upload to Eve and Dropbox
# WCF Web Service	

PREAMBLE

Gregory Adam owns multiple theatres across South Africa. As a lover of the performing arts, who would like to see the arts sector blossom, he has asked you to help him to develop a database for theatre management. The following information has been provided to you.

The data that must be stored for each theatre include the theatre's name, city and the capacity (i.e. how many people can be seated in the theatre). Each theatre has many artists working at the theatre and each artist works at only one theatre.

There are three different types of artists that Gregory wishes to keep track of, namely, Musicians, Dancers and Actors. The attributes that all artists have in common are: Name and Surname. Each artist must be either a Musician, Dancer or Actor but cannot be any of them at once.

Musicians have the instrument and genre in which they specialize. Dancers have a specific style they major in and the database should also keep track of their height. The database should, furthermore, keep track of each actor's hair colour and their number of years of acting experience.

Gregory would like to support musicians by helping to keep track of the albums that they produce.

One musician can have many albums and an album may have multiple musicians collaborating on it. Each collaboration on an album should have a date.

The data that needs to be stored for an album includes: Title, number of tracks and the price of the album.

QUESTION

In Visual studio 2019, using a SQL Server Database, create a database using the information provided above. Include all attributes and datatypes. Use the LINQ to SQL Classes Schema to visually represent the database. Upload a screenshot of the visual representation of the database to eve and the solution to Dropbox.

Upload Link:

<https://www.dropbox.com/request/dEr9Z73Diinq6ZElehBr>

Description	Marks
Entities	10
Attributes	10
Keys	10
Relationships	10
Correct Upload	10
Total	50