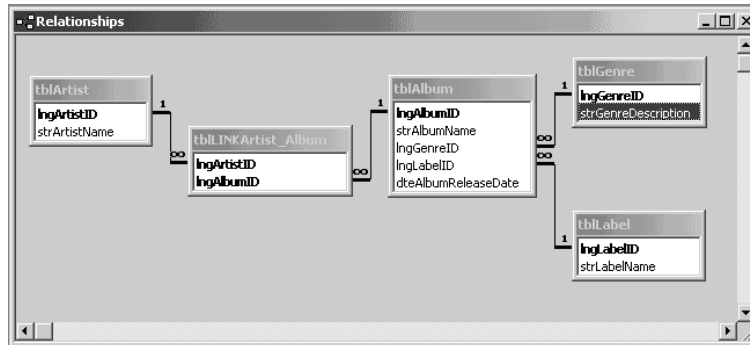| Computer Science | COMPSCI 111/111G — Mastering Cyberspace |

Database 02
Exercise Sheet

The relationship diagram above shows the tables used to store information about music albums. Use the diagram to answer the questions below.

Exercise 1: State the primary key of the tblAlbum table.

lngAlbumID

Exercise 2: State the foreign key(s) of the tblAlbum table (if any).

lngGenreID and lngLabelID

Exercise 3: Given the relationship diagram, can an artist have more than one album? Explain why.

Yes, there is a many-to-many relationship between the lngArtistID field in the tblArtist table and the lngAlbumID field in the tblAlbum table. tblLINKArtist_ALbum links the two fields together and is the key piece in the many-to-many relationship

Exercise 4: Given the relationship diagram, can an album have more than one artist? Explain why.

Yes, because there is a many-to-many relationship between the lngArtistID field in the tblArtist table and the lngAlbumID field in the tblAlbum table.

Exercise 5: Complete the QBE form below so that the query will return the first name, surname and grade (in that order) of any student that has achieved an A+.

Query2 : Select Query

Students
```
*
Surname
First Names
ID
Total
Grade
Lab Number
```

Field:	First Names	Surname	Grade		
Table:	Students	Students	Students		
Sort:					
Show:	☑	☑	☑	☐	
Criteria:			'A+'		
or:					

Exercise 6: Write the SQL command that will return the same result as the QBE above

SELECT [First Names], Surname, Grade
FROM Students
WHERE Grade = 'A+';

Exercise 7: Write the SQL command that would return the surnames and ID numbers of the students, ordered according to their total marks.

SELECT Surname, ID
FROM Students
ORDER BY Total ASC;