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CIS223: Introduction to Databases

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For my final project, I would like to do something related to albums, specifically K-Pop albums. The databases I will model will support the management of the album collection by storing information about albums, songs, formats, and stock levels.

Function: K-Pop Album Collection Management

Business Rules:

* Each album in the collection has their own album ID
* Albums are released by different K-Pop groups
* Each album has a title, release date, and genre
* Albums may have different versions (such as standard edition, limited edition, etc.)
* Each album may contain multiple songs
* Each song has a title, length, and composer
* Albums may have different formats (such as physical CD, digital download, etc.)
* The collection keeps track of the quantity of each album in stock

Tables:

* Album
* Group
* Song
* Format
* Stock

Attributes:

Album:

* Album ID (Primary Key)
* Title
* Release Date
* Genre
* Group ID (Foreign Key)

Group:

* Group ID (Primary Key)
* Group Name

Song:

* Song ID (Primary Key)
* Title
* Length
* Composer

Format:

* Format ID (Primary Key)
* Format Type (CD, Digital)

Stock:

* Album ID (Primary Key, Foreign Key)
* Quantity