

ACOM1900 Intro. to Programming:

Databases

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What songs are on your iPod?

- Song?
- Album?
- Group?
- Artist?

Artists	Group	Album	Song
Blackmore, Gillan, Lord & Paice	Deep Purple	Made in Japan	Highway star
Blackmore, Gillan, Lord & Paice	Deep Purple	Made in Japan	Speed king
Blackmore, Coverdale, Lord & Paice	Deep Purple	Made in Europe	Mistreated
Blackmore, Dio, Powell, Carey & Bain	Rainbow	Rising	Stargazer

Relational database

- Store each piece of information once
 - Ecommerce, human resources, student records, etc.
 - divide data into separate tables
 - add internal data to link records
 - less memory; easier to maintain
 - more complex to develop
- iPod collection, with tables for:
 - Artists:
 - Groups:
 - Albums:
 - Songs:

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iPod song programme

- Store data in relational database
- You can search for all songs
 - by given group
 - about certain topic
- How?
 - process user's input
 - search database
 - print out songs (avoiding duplicates)

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