

Organising 5000 MP3s the easy way

CDDB::Query and friends introduced

Paul Mison, Fotango, January 2003

Organising 5,000 MP3s the lazy way

Introduction

- **I have lots of MP3s**

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- **Typing in tags is a pain**

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- **Computers can manipulate data**

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- **I have lots of MP3s**
- **Typing in tags is a pain**
- **Computers can manipulate data**
- **Problem / Solution?**

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Using Perl (duh!)

- **MP3::Info and MP3::Tag**

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Using Perl (duh!)

- **MP3::Info and MP3::Tag**
- **Where to get the data from?**

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Using Perl (duh!)

- **MP3::Info and MP3::Tag**
- **Where to get the data from?**
- **Filenames incomplete**

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Using Perl (duh!)

- **MP3::Info and MP3::Tag**
- **Where to get the data from?**
- **Filenames incomplete**
- **Webservices::FreeDB?**

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FreeDB locally

- **Freely downloadable**

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- **Files are a bit big**

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- **Freely downloadable**
- **Files are a bit big**
- **Unpacked even bigger**

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FreeDB locally

- **Freely downloadable**
- **Files are a bit big**
- **Unpacked even bigger**
- **Not easily searchable**

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Loading Into MySQL

- **Parsing files: CDDDB::File**

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- **Parsing files: CDDDB::File**
- **DB schema: trivial**

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Loading Into MySQL

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- **DB schema: trivial**
- **Inserting data: CDDDB::Loader**

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Loading Into MySQL

- **Parsing files: CDDDB::File**
- **DB schema: trivial**
- **Inserting data: CDDDB::Loader**
- **Not optimised though**

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```
CREATE TABLE disc (  
    ARTIST VARCHAR(250),  
    TITLE  VARCHAR(250),  
    GENRE  VARCHAR(250),  
    DISCID VARCHAR(8) PRIMARY KEY,  
    YEAR   NUMERIC(4),  
    INDEX  idx_artist (ARTIST)  
);
```

```
CREATE TABLE track (  
    DISCID      VARCHAR(8) NOT NULL,  
    TRACKNO     NUMERIC(2) NOT NULL,  
    TRACKNAME   VARCHAR(250),  
    ARTIST      VARCHAR(250),  
    TIME        NUMERIC(4),  
    PRIMARY KEY (DISCID, TRACKNO),  
    INDEX       idx_name   (TRACKNAME),  
    INDEX       idx_artist (ARTIST)  
);
```

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Initial Queries

- **So, DB is in place**

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- **We can start to query it**

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- **Simple to start with:**

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Initial Queries

- **So, DB is in place**
- **We can start to query it**
- **Simple to start with:**
- **Use trackname and artist**

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Flattening Result Sets

- **Simplest way**

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Flattening Result Sets

- **Simplest way**
- **Most rows for each column**

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Flattening Result Sets

- **Simplest way**
- **Most rows for each column**
- **Also, save discids from best matches**

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Flattening Result Sets

- **Simplest way**
- **Most rows for each column**
- **Also, save discids from best matches**
- **Later, get 'best' disc_id**

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artist	title	trackname	trackno	year	time	discid
Prodigy	Poisoned Acid Dancer - Single	Their Law	4	0	300	a511530d
Prodigy	4-Track Sampler	Their Law	2	0	325	2f047004
Prodigy	The Best of Prodigy	Their Law	6	0	249	de115710
Prodigy	The Jilted Generation	Their Law	3	0	400	bb110c0d
Prodigy	Unbridled	Their Law	3	0	263	da11110e
Prodigy	Live Brixton '97	Their Law	6	1997	323	b50d7d0c
Prodigy	Music For The Jilted Generation	Their Law	3	1994	400	b912570d
Prodigy	Music for the jilted generation	Their law	3	0	402	ad10bc0c
Prodigy	Music for the voodoo crew	Their law	6	0	283	11115312
Prodigy	Music For Jilted Generation	Their Law	3	0	400	c811390d
Prodigy	Music For The Jilted Generation	Their Law	3	1994	400	c012570d
Prodigy	Music For The Jilted Generation	Their Law	3	0	402	b710120c
Prodigy	Too Much Arson About	Their Law	7	0	551	c8109a0d
Prodigy	Star Profile	Their Law	10	0	401	c9121b0e

becomes

artist	title	trackname	trackno	year	time
Prodigy	Music For The Jilted Generation	Their Law	3	1994	400

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Topping and Tailing

- **Why enter data? Read tags**

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Topping and Tailing

- **Why enter data? Read tags**
- **Why count? Track numbers**

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Topping and Tailing

- **Why enter data? Read tags**
- **Why count? Track numbers**
- **Why confirm choices? Write tags**

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Topping and Tailing

- **Why enter data? Read tags**
- **Why count? Track numbers**
- **Why confirm choices? Write tags**
- **Possibly move files**

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And the results?

- **Middling to good**

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- **Mainly get albums**

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- **Often greatest hits though**

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And the results?

- **Middling to good**
- **Mainly get albums**
- **Often greatest hits though**
- **Still probably better than nowt**

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Future plans

- **CPAN for Loader/Query**

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- **'Thin' web service to DB?**

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- **'Thin' web service to DB?**
- **Use track times?**

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Future plans

- **CPAN for Loader/Query**
- **'Thin' web service to DB?**
- **Use track times?**
- **GUI front end?**

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Thank you.