

a.

create the database:

```
create database music;
```

create the tables:

```
use music;
```

```
create table music_category  
(mc_id      char(15) not null,  
 primary key (mc_id));
```

```
create table recording_artist  
(ra_id      char(30) not null,  
 ra_notes   char(100)      ,  
 primary key (ra_id));
```

```
create table recording  
(recording_id  smallint not null,  
 title         char(30)  not null,  
 ra_id        char(30)  not null,  
 mc_id        char(15)  not null,  
 rec_label     char(20)      ,  
 rec_format    char(15)  not null,  
 no_tracks     char(15)  not null,  
 rec_notes     char(100)      ,  
 primary key   (recording_id))
```

insert data into the music category table:

```
insert into music_category values  
('classical');
```

```
insert into music_category values  
('rock');
```

```
insert into music_category values  
('jazz');
```

```
insert into music_category values  
('country');
```

```
insert into music_category values  
('new age');
```

insert data into the recording artist table:

```
insert into recording_artist values  
('The Popular Mechanics', 'classic rock sound');
```

```
insert into recording_artist values  
('Crawdada Stare', 'grunge rock style');
```

```
insert into recording_artist values  
('Dog House Rules', 'smooth jazz from Chicago area');
```

```
insert into recording_artist values  
('Mary Saveley', 'soft soul jase');
```

insert data into the recording table:

insert into recording values

(**10001**, 'Noise in the Garage', 'Crawdad Stare', 'Rock', 'Goes to 11, Inc.', 'CD', **10**, '1st recording to break top 10 by this artist.');

insert into recording values

(**10002**, 'Look Both Ways', 'Crawdad Stare', 'Rock', 'Hippo records', 'Cassette', **12**, 'Artists original release. Underground until Noise in garage was popular');

insert into recording values

(**10003**, 'Outback', 'Crawdad Stare', 'Rock', null, 'CD', **10**, null);

insert into recording values

(**10004**, 'Short Circuit', 'Dog House Rules', 'Jazz', null, 'Cassette', **7**, null);

insert into recording values

(**10005**, 'Meditations', 'Mary Saveley', 'New Age', null, 'CD', **6**, null);

insert into recording values

(**10006**, 'Opus 65', 'The Popular Mechanics', 'Classical', null, 'CD', **5**, null);

insert into recording values

(**10007**, 'Sounds Better Louder', 'Crawdad Stare', 'Rock', 'Goes to 11, Inc.', 'CD', **10**, null)

1. Show all the informatiojn on Music Categories.

Toad for MySQL - [root@localhost Editor Untitled1*]

File Edit Editor Debug View Tools Window Help Search Toad World

file:///C:/Documents%20and%20... music

Connection Manager MySQL
root@localhost (tenis)
root@localhost (music)
root@localhost (TENNIS)

Object Explorer music
Tables Views Indexes Proce...

Name

- music_category
- recording
- recording_artist

Column	Datatype	Comment
mc_id	char(15)	

```
select *  
from music_category
```

Results Result Sets Messages Explain Plan Pivot & Chart

Set 1

mc_id *
▶ classical
country
jazz
new age
rock

Record 1 of 5

2. Show all the information available on Recordings

3. Show all the information available on Recording Artists.

Toad for MySQL - [root@localhost Editor Untitled1*]

File Edit Editor Debug View Tools Window Help

Search Toad World

file:///C:/Documents%20and%20... music

Connection Manager

- MySQL
 - root@localhost (tenis)
 - root@localhost (music)
 - root@localhost (TENNIS)

Object Explorer

music

Tables Views Indexes Procer

Name

- music_category
- recording
- recording_artist

Column Datatype Comment

mc_id	char(15)	
-------	----------	--

Editor Untitled1*

```
select *
from recording_artist
```

Results

Result Sets Messages Explain Plan Pivot & Chart

Set 1 Set 2 Set 3

ra_id *	ra_notes
Crawdad Stare	grunge rock style
Dog House Rules	smooth jazz from Chicago area
Mary Savely	soft soul jase
The Popular Mechanics	classic rock soun

Record 1 of 4

AutoCommit Code Ready Ln 2 Col 22 Off 31 Len 0 root@localhost (music)

4. For all Recording Artists, show the artist's name, recording title, recording format and the number of tracks available on the recording.

Toad for MySQL - [root@localhost Editor Untitled1*]

File Edit Editor Debug View Tools Window Help

Search Toad World

file:///C:/Documents%20and%20... music

Connection Manager

- MySQL
 - root@localhost (tenis)
 - root@localhost (music)
 - root@localhost (TENNIS)

Object Explorer

music

Tables Views Indexes Procs

Name
music_category
recording
recording_artist

Column	Datatype	Comment
recording_id	smallint...	
title	char(30)	
ra_id	char(30)	
mc_id	char(15)	
rec_label	char(20)	
rec_format	char(15)	
no_tracks	smallint...	
rec_notes	char(100)	

```

select ra_id as artist, title, rec_format as record_format, no_tracks
from recording
order by ra_id

```

Results

Result Sets Messages Explain Plan Pivot & Chart

Set 2

artist *	title *	record_format *	no_tracks *
Crawdad Stare	Noise in the Garage	CD	10
Crawdad Stare	Look Both Ways	Cassette	12
Crawdad Stare	Outback	CD	10
Crawdad Stare	Sounds Better Louder	CD	10
Dog House Rules	Short Circuit	Cassette	7
Mary Savely	Meditations	CD	6
The Popular Mechanics	Opus 65	CD	5

Record 1 of 7

AutoCommit Code Ready Ln 3 Col 9 Off 92 Len 0 root@localhost (music)

5. For all Music Categories, show the category and recording title.

Toad for MySQL - [root@localhost Editor Untitled1*]

File Edit Editor Debug View Tools Window Help

Search Toad World

file:///C:/Documents%20and%20...

Connection Manager

- MySQL
 - root@localhost (tenis)
 - root@localhost (music)
 - root@localhost (TENNIS)

```
select mc_id as category, title
from recording
order by mc_id
```

Object Explorer

music

Tables Views Indexes Proce...

Name
music_category
recording
recording_artist

Column	Datatype	Comment
recording_id	smallint...	
title	char(30)	
ra_id	char(30)	
mc_id	char(15)	
rec_label	char(20)	
rec_format	char(15)	
no_tracks	smallint...	
rec_notes	char(100)	

Results

Result Sets Messages Explain Plan Pivot & Chart

Set 2 Set 4

category *	title *
Classical	Opus 65
Jazz	Short Circuit
New Age	Meditations
Rock	Noise in the Garage
Rock	Look Both Ways
Rock	Outback
Rock	Sounds Better Louder

Record 1 of 7

6. For all Recordings, show the recording title, artist name, and music category.

Toad for MySQL - [root@localhost Editor Untitled1*]

File Edit Editor Debug View Tools Window Help

Search Toad World

music

Connection Manager

- MySQL
 - root@localhost (tenis)
 - root@localhost (music)
 - root@localhost (TENNIS)

Object Explorer

music

Tables Views Indexes Proc...

Name

- music_category
- recording
- recording_artist

Column Datatype Comment

Column	Datatype	Comment
recording_id	smallint...	
title	char(30)	
ra_id	char(30)	
mc_id	char(15)	
rec_label	char(20)	
rec_format	char(15)	
no_tracks	smallint...	
rec_notes	char(100)	

Editor Untitled1*

```
select title, ra_id as artist, mc_id as music_category
from recording
```

Results

Result Sets Messages Explain Plan Pivot & Chart

Set 2

title *	artist *	music_category *
Noise in the Garage	Crawdad Stare	Rock
Look Both Ways	Crawdad Stare	Rock
Outback	Crawdad Stare	Rock
Short Circuit	Dog House Rules	Jazz
Meditations	Mary Savely	New Age
Opus 65	The Popular Mechanics	Classical
Sounds Better Louder	Crawdad Stare	Rock

Record 1 of 7

AutoCommit Code Ready Ln 1 Col 47 Off 46 Len 0 root@localhost (music)

7. You have found that you are asking for the information in question 6 often as your collection grows. Create a view entitled: "my_collection" AND show all information available from the view.

Toad for MySQL - [root@localhost Editor Untitled1*]

File Edit Editor Debug View Tools Window Help

Search Toad World

file:///C:/Documents%20and%20...

Connection Manager

MySQL

- root@localhost (tenis)
- root@localhost (music)
- root@localhost (TENNIS)

Object Explorer

music

Tables Views Indexes Proc...

Name
music_category
recording
recording_artist

Column	Datatype	Comment
recording_id	smallint...	
title	char(30)	
ra_id	char(30)	
mc_id	char(15)	
rec_label	char(20)	
rec_format	char(15)	
no_tracks	smallint...	
rec_notes	char(100)	

Editor Untitled1*

```
create view my_collection as
select title, ra_id as artist, mc_id as music_category
from recording
;
select *
from my_collection
```

Results

Result Sets Messages Explain Plan Pivot & Chart

Set 2	Set 5	
title *	artist *	music_category *
Noise in the Garage	Crawdad Stare	Rock
Look Both Ways	Crawdad Stare	Rock
Outback	Crawdad Stare	Rock
Short Circuit	Dog House Rules	Jazz
Meditations	Mary Savely	New Age
Opus 65	The Popular Mechanics	Classical
Sounds Better Louder	Crawdad Stare	Rock

Record 1 of 7

8. Using your newly created view, show all the information from "my_collection" and the comments about the recordings.

The screenshot shows the Toad for MySQL interface. The main editor window contains the following SQL query:

```
SELECT my_collection.title, my_collection.artist,
my_collection.music_category, recording.rec_notes
FROM my_collection, recording
where recording.title = my_collection.title
```

The Results pane displays the output of the query as a table with 7 rows and 4 columns: title *, artist *, music_category *, and rec_notes. The first row is expanded to show the rec_notes for "Noise in the Garage".

title *	artist *	music_category *	rec_notes
Noise in the Garage	Crawdad Stare	Rock	1st recording to break top 10 by this artist.
Look Both Ways	Crawdad Stare	Rock	Artists original release. Underground until Noise in garage was popular
Outback	Crawdad Stare	Rock	{null}
Short Circuit	Dog House Rules	Jazz	{null}
Meditations	Mary Saveley	New Age	{null}
Opus 65	The Popular Mechanics	Classical	{null}
Sounds Better Louder	Crawdad Stare	Rock	{null}

The interface also shows the Connection Manager, Object Explorer, and a column list for the recording table.

9. Using your newly created view, show all the information from "my_collection" and the comments about the recording artists.

The screenshot shows the Toad for MySQL interface. The main editor window contains the following SQL query:

```
SELECT my_collection.title, my_collection.artist,
my_collection.music_category, recording_artist.ra_notes as comments
FROM my_collection, recording_artist
WHERE my_collection.artist = recording_artist.ra_id
```

The Results pane displays the output of the query as a table with 7 rows and 4 columns: title, artist, music_category, and comments. The data is as follows:

title *	artist *	music_category *	comments
Noise in the Garage	Crawdad Stare	Rock	grunge rock style
Look Both Ways	Crawdad Stare	Rock	grunge rock style
Outback	Crawdad Stare	Rock	grunge rock style
Sounds Better Louder	Crawdad Stare	Rock	grunge rock style
Short Circuit	Dog House Rules	Jazz	smooth jazz from Chicago area
Meditations	Mary Saveley	New Age	soft soul jase
Opus 65	The Popular Mechanics	Classical	classic rock sound

The interface also shows the Connection Manager with a connection to 'root@localhost (music)', the Object Explorer with a tree view of the 'music' database, and a table definition for 'recording_artist' with columns 'ra_id' (char(30)) and 'ra_notes' (char(100)).

10. Delete your database and all information

The screenshot shows the Toad for MySQL interface. The main editor window contains the SQL command: `drop database music`. The Results pane at the bottom displays the execution output in a table format.

Category	Timestamp	Duration	Message	Line	Position
Statement	3/1/2011 5:54:51 PM	0:00:00.087	4 rows affected	2	0

The status bar at the bottom indicates the current session is `root@localhost (music)` and the editor is in `Code` mode, `Ready` state, with the cursor at `Ln 2 Col 20 Off 20 Len 0`.