

Sujin Ryu
CIS251
11/16/2015

Practice Final Exam

The screenshot displays the MySQL Workbench interface. The main window shows a SQL script with the following content:

```
-- Sujin Ryu 11/16/2015
1
2
3 COMMIT WORK;
4 DROP DATABASE IF EXISTS music;
5 CREATE DATABASE music;
6 USE music;
7
8 DROP TABLE IF EXISTS Music_Categories;
9 DROP TABLE IF EXISTS Recording_Artists;
10 DROP TABLE IF EXISTS Recordings;
11
12 CREATE TABLE Music_Categories
13 (Music_Category_ID CHAR (50) NOT NULL PRIMARY KEY);
14
15 CREATE TABLE Recording_Artists
16 (Recording_Artist_ID CHAR (50) NOT NULL PRIMARY KEY,
17 Notes CHAR (100));
18
19 CREATE TABLE Recordings
20 (Recording_NO INTEGER NOT NULL PRIMARY KEY,
21 Recording_Title CHAR (50) NOT NULL,
22 Recording_Artist_ID CHAR (50) NOT NULL,
23 Music_Category_ID CHAR (50) NOT NULL,
24 Recording_Label CHAR (50),
25 Format CHAR (10) NOT NULL
26 CHECK (format IN ('CD', 'Cassettee')),
27 Number_of_Tracks
28 CHECK (Number_of_Tracks > 0),
29 CHAR (100),
30 FOREIGN KEY (Music_Category_ID) REFERENCES Music_Categories
31 (Music_Category_ID),
32 FOREIGN KEY (Recording_Artist_ID) REFERENCES Recording_Artists
33 (Recording_Artist_ID);
34
35 COMMIT WORK
```

The Output window at the bottom shows the following results:

Time	Action	Message	Duration / Fetch
04:58:33	INSERT INTO Recordings VALUES (5, 'Meditations', 'Mary Saveley', 'New_Age', NULL, 'CD', 6, NULL)	1 row(s) affected	0.187 sec
04:58:34	INSERT INTO Recordings VALUES (6, 'Opus 65', 'The popular Mechanics', 'Classical', NULL, 'CD', 5, ...)	1 row(s) affected	0.016 sec
04:58:34	INSERT INTO Recordings VALUES (7, 'Sounds better Louder', 'Crowdad Stare', 'Rock', 'Goes to 11, ...	1 row(s) affected	0.031 sec
04:58:34	COMMIT WORK	0 row(s) affected	0.000 sec

MySQL Workbench

Local instance MySQL56

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 6* SQL File 6* SQL File 4* x

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

- music
 - Tables
 - music_categories
 - recording_artists
 - recordings
 - Views
 - Stored Procedures

Schema: music

Object Info Session

```

1 -- Sujin Ryu 11/16/2015
2
3 use music;
4 select * from music.music_categories
  
```

Result Grid

Music_Category_ID
Classical
Country
Jazz
New_Age
Rock
Rock

Output

Time	Action	Message	Duration / Fetch
27 04:58:34	INSERT INTO Recordings VALUES ('7', 'Sounds better Louder', 'Crawdad Stare', 'Rock', 'Goes to 1...	1 row(s) affected	0.031 sec
28 04:58:34	COMMIT WORK	0 row(s) affected	0.000 sec
29 05:00:59	use music	0 row(s) affected	0.000 sec
30 05:00:59	select * from music.music_categories LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Action Output

SQL Additions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid Form Editor Field Types

c_categories 1 x Apply Revert Context Help Snippets

MySQL Workbench

Local instance MySQL56

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Information: Schema: music

Object Info Session

```
1 -- Sujin Ryu 11/16/2015
2
3 use music;
4 select * from music.recording_artists
```

Result Grid

Recording_Artist_ID	Notes
Crawdad Stare	Grunge Rock style
Dog House Rules	Smooth Jazz from Chicago area
Mary Saveley	Soft soul jase
The Popular Mechanics	Classic rock sound
* NULL	NULL

recording_artists2 x

Output

Action Output

Time	Action	Message
29 05:00:59	use music	0 row(s) affected
30 05:00:59	select * from music.music_categories LIMIT 0, 1000	5 row(s) returned
31 05:02:04	use music	0 row(s) affected
32 05:02:04	select * from music.recording_artists LIMIT 0, 1000	4 row(s) returned

MySQL Workbench

Local instance MySQL56 x

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 6* SQL File 6* SQL File 4* x

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 - Stored Procedures
 - Functions

Information

Schema: music

Object Info Session

SQL File 6*
 1 -- Sujin Ryu 11/16/2015
 2
 3 use music;
 4 select * from music.recordings
 5

Result Grid

Recording_NO	Recording_Title	Recording_Artist_ID	Music_Category_ID	Recording_Label	Format	Number_of_Tracks	Notes
1	Noise in the Garage	Crawdad Stare	Rock	Goes to 11, Inc.	CD	10	First recording to break top 10 by th
2	Look Both Ways	Crawdad Stare	Rock	Hippo Records	Cassette	12	Artists original release. Underground
3	Outback	Crawdad Stare	Rock	NULL	CD	10	NULL
4	Short Circuit	Dog House Rules	Jazz	NULL	Cassette	7	NULL
5	Meditations	Mary Saveley	New_Age	NULL	CD	6	NULL
6	Opus 65	The popular Mechanics	Classical	NULL	CD	5	NULL
7	Sounds better Louder	Crawdad Stare	Rock	Goes to 11, Inc.	CD	10	NULL

recordings 3 x

Output

Action Output

Time	Action	Message	Duration / Fetch
31 05:02:04	use music	0 row(s) affected	0.000 sec
32 05:02:04	select * from music.recording_artists LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
33 05:02:41	use music	0 row(s) affected	0.000 sec
34 05:02:41	select * from music.recordings LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

CIS251SUJINRYU - CIS251SUJINRYU.cloudapp.net:57991 - Remote Desktop Connection

MySQL Workbench

Local instance MySQL56

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 - Functions

Schema: music

```
1 -- Sujin Ryu 11/16/2015
2
3 use music;
4
5 select Music_Category_ID
6 from music_categories;
7
```

Result Grid

Music_Category_ID
Classical
Country
Jazz
New_Age
Rock
* NULL

music_categories 4 x

Output

Action Output

	Time	Action
✓	33 05:02:41	use music
✓	34 05:02:41	select * from music.recordings LIMIT 0, 1000
✓	35 05:06:34	use music
✓	36 05:06:34	select Music_Category_ID from music_categories LIMIT 0, 1000

MySQL Workbench

Local instance MySQL56 x

File Edit View Query Database Server Tools Scripting Help

Navigator: SQL File 6* SQL File 6* SQL File 4* x

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Filter objects

music

- Tables
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- Views
- Stored Procedures
- Functions

Schema: music

```

1
2
3 use music;
4
5 select * from recordings
6 where Music_Category_ID = 'Rock';
7
8

```

Result Grid

Recording_NO	Recording_Title	Recording_Artist_ID	Music_Category_ID	Recording_Label	Format	Number_of_Tracks	Notes
1	Noise in the Garage	Crawdad Stare	Rock	Goes to 11, Inc.	CD	10	First recording to break top 10 by this
2	Look Both Ways	Crawdad Stare	Rock	Hippo Records	Cassette	12	Artists original release. Underground u
3	Outback	Crawdad Stare	Rock	NOISE	CD	10	
7	Sounds better Louder	Crawdad Stare	Rock	Goes to 11, Inc.	CD	10	

Output

Action Output

Time	Action	Message	Duration / Fetch
35 05:06:34	use music	0 row(s) affected	0.000 sec
36 05:06:34	select Music_Category_ID from music_categories LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
37 05:10:45	use music	0 row(s) affected	0.000 sec
38 05:10:45	select * from recordings where Music_Category_ID = 'Rock' LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Information

Object Info Session

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

Local instance MySQL56 x

File Edit View Query Database Server Tools Scripting Help

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Filter objects

music

- Tables
 - music_categories
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- Views
- Stored Procedures
- Functions

Schema: music

```

1
2
3 use music;
4
5 select Recording_Artist_ID , Recording_Title , Format , Number_of_Tracks
6 from recordings;
7
8

```

Result Grid

Recording_Artist_ID	Recording_Title	Format	Number_of_Tracks
Crawdad Stare	Noise in the Garage	CD	10
Crawdad Stare	Look Both Ways	Cassette	12
Crawdad Stare	Outback	CD	10
Dog House Rules	Short Circuit	Cassette	7
Mary Saveley	Meditations	CD	6
The popular Mechanics	Opus 65	CD	5
Crawdad Stare	Sounds better Louder	CD	10

Output

Action Output

Time	Action	Message	Duration / Fetch
41 05:13:00	use music	0 row(s) affected	0.000 sec
42 05:13:00	select Recording_Artist_ID , Recording_Title , Format , Number_of_Tracks from recording_artis...	Error Code: 1054. Unknown column 'Recording_Title' in fie...	0.000 sec
43 05:14:18	use music	0 row(s) affected	0.000 sec
44 05:14:18	select Recording_Artist_ID , Recording_Title , Format , Number_of_Tracks from recordings LIM...	7 row(s) returned	0.000 sec / 0.000 sec

Information

Object Info Session

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench interface showing a query execution. The SQL editor contains the following code:

```

1
2
3 use music;
4
5 select music_categories.Music_Category_ID, Recording_Title
6 from music_categories, recordings
7 where music_categories.Music_Category_ID= Recordings.Music_Category_ID
8
9

```

The Result Grid displays the following data:

Music_Category_ID	Recording_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

The Action Output table shows the execution details:

Time	Action	Message	Duration / Fetch
1 06:51:35	use music	0 row(s) affected	0.016 sec
2 06:51:35	select Music_Category_ID, Recording_Title from music_categories, ...	Error Code: 1052. Column 'Music_Category_ID' in field list is ambiguous	0.000 sec

MySQL Workbench interface showing a query execution. The SQL editor contains the following code:

```

1
2
3 use music;
4
5 select Recording_Title, Recording_Artist_ID, Music_Category_ID
6 from recordings
7
8
9

```

The Result Grid displays the following data:

Recording_Title	Recording_Artist_ID	Music_Category_ID
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 Saveley	New_Age
Opus 65	The popular Mechanics	Classical
Sounds better Louder	Crawdad Stare	Rock

The Action Output table shows the execution details:

Time	Action	Message	Duration / Fetch
15 06:38:18	use music	0 row(s) affected	0.000 sec
16 06:38:18	select Music_Category_id, Recording_Title from music_categories, recordings wh...	Error Code: 1052. Column 'Music_Category_id' in field list is ambiguous	0.000 sec
17 06:40:19	use music	0 row(s) affected	0.000 sec
18 06:40:19	select Recording_Title, Recording_Artist_ID, Music_Category_ID from recording...	7 row(s) returned	0.000 sec / 0.000 sec