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IST 659 Data Admin Concepts & Db Mgmt

Date: 8/20/18

Lab Assignment: Lab 6, Querying, Inserting, Updating and Deleting

Description / Learning Objective

- Demonstrate data manipulation language (DML) proficiency

Responses:

Part 1, Filling our Tables with Data

We will have to use each of the CRUD commands to manipulate the data in our tables.

TODO-1: *Take a screenshot of your results grid and paste it into your answers document labeled 'First VidCast'*

First VidCast

	vc_VidCastID	VidCastTitle	StartDateTime	EndDateTime	ScheduledDurationMinutes	RecordingURL	vc_UserID	vc_StatusID
1	1	December Snow	2018-03-01 14:00:00.000	2018-03-01 14:30:00.000	30	/XVF1234	2	3

TODO-2: *Code and execute the preceding SQL in SSMS. Remember you can highlight lines of code in SSMS and when you click "Execute" it will only execute the highlighted code. Paste a screenshot of your results into your answer document labeled as 'Saul's First VidCast'*

Saul's First VidCast

	UserName	EmailAddress	VidCastTitle	StartDateTime	EndDateTime	ScheduledHours	StatusText
1	SaulHudson	slash@nodomain.xyz	December Snow	2018-03-01 14:00:00.000	2018-03-01 14:30:00.000	0.500000	Finished

TODO-3: *Code and execute the preceding SQL in SSMS. Remember you can highlight lines of code in SSMS and when you click "Execute" it will only execute the highlighted code. Paste a screenshot of your results into your answer document labeled as 'Update a User'*

Update a User

	vc_UserID	UserName	EmailAddress	UserDescription	WebSiteURL	UserRegisteredDate
1	2	SaulHudson	slash@nodomain.xyz	I like Les Paul guitars	NULL	2018-03-01 00:00:00.000

TODO-4: Code and execute the preceding SQL in SSMS. Remember you can highlight lines of code in SSMS and when you click “Execute” it will only execute the highlighted code. Paste a screenshot of your results into your answer document labeled as ‘No more on time’

No more on time

	vc_StatusID	StatusText
1	3	Finished
2	1	Scheduled
3	2	Started

Part 2, Putting All Together

In this part, you'll add some more data to the VidCast tables and write some queries to read the new data.

TODO-1: Code and execute the SQL INSERT statement(s) to add the preceding values to the vc_Tag table. When finished, write a SELECT statement that retrieves all rows from vc_Tag. Paste a copy of your code and a screenshot of the results to your answer doc labeled ‘Tags’

Tags

	vc_TagID	TagText	TagDescription
1	1	Personal	About people
2	2	Professional	Business, business, business
3	3	Sports	All manner of sports
4	4	Music	Music analysis, news, and thoughts
5	5	Games	Live streaming our favorite games

SQL Query

```
-- Adding Tags to the vc_Tag Table
INSERT INTO vc_Tag(TagText, TagDescription)
VALUES('Personal','About people'),('Professional','Business, business,
business'),('Sports','All manner of sports'),('Music','Music analysis, news, and
thoughts'),('Games','Live streaming our favorite games')

-- Retrieve all rows from vc_Tag Table
SELECT * from vc_Tag
```

TODO-2: Code and execute the SQL INSERT statement(s) to add the preceding values to the vc_User table. When finished, write a SELECT statement that retrieves all rows from vc_User. Paste a copy of your code and a screenshot of the results to your answer doc labeled 'Users'

Users

	vc_UserID	UserName	EmailAddress	UserDescription	WebSiteURL	UserRegisteredDate
1	1	RDwight	rdwight@nodomain.xyz	Piano Teacher	NULL	2018-08-10 20:01:05.447
2	2	SaulHudson	slash@nodomain.xyz	I like Les Paul guitars	NULL	2018-03-01 00:00:00.000
3	3	Gordon	sumner@nodomain.xyz	Former cop	NULL	2018-08-10 20:01:05.447
4	4	TheDoctor	tomBaker@nodomain.xyz	The definite article	NULL	2018-08-11 15:14:09.157
5	5	HairCut	S.todd@nodomain.xyz	Fleet Street barber shop	NULL	2018-08-11 15:14:09.157
6	6	DnDGal	dnd@nodomain.xyz	NULL	NULL	2018-08-11 15:14:09.157

SQL Query

```
-- Adding users to the vc_User table
INSERT INTO vc_User(UserName,EmailAddress,UserDescription)
VALUES('TheDoctor','tomBaker@nodomain.xyz','The definite
article'),('HairCut','S.todd@nodomain.xyz','Fleet Street barber
shop'),('DnDGal','dnd@nodomain.xyz',NULL)

-- Retrieve all rows from vc_User table
SELECT * from vc_User
```

TODO-3: Copy and paste the complete code from Appendix B into your SQL script file and execute it against your database. After you have inserted those 14 rows, Code and execute a SELECT statement to retrieve all vc_UserTagList records and paste a screenshot of your results to your answer doc labeled 'User Tag List'.

User Tag List

	vc_UserTagListID	vc_TagID	vc_UserID
1	3	3	6
2	4	2	6
3	5	2	1
4	6	3	2
5	7	1	3
6	8	1	6
7	9	5	3
8	10	2	5
9	11	4	4
10	12	5	6
11	13	5	2
12	14	2	3
13	15	4	5
14	16	1	4

TODO-4: Code and execute a SQL SELECT statement that retrieves the vc_User's UserName and EmailAddress and the vc_Tag TagText for all vc_User records, ordered by user name then tag. Your output should look like the following screenshot. Copy and paste your SQL and a results screenshot to your answers doc labeled 'User Tags Report'

User Tags Report

	UserName	EmailAddress	TagText
1	DnDGal	dnd@nodomain.xyz	Games
2	DnDGal	dnd@nodomain.xyz	Personal
3	DnDGal	dnd@nodomain.xyz	Professional
4	DnDGal	dnd@nodomain.xyz	Sports
5	Gordon	sumner@nodomain.xyz	Games
6	Gordon	sumner@nodomain.xyz	Personal
7	Gordon	sumner@nodomain.xyz	Professional
8	HairCut	S.todd@nodomain.xyz	Music
9	HairCut	S.todd@nodomain.xyz	Professional
10	RDwight	rdwight@nodomain.xyz	Professional
11	SaulHud...	slash@nodomain.xyz	Games
12	SaulHud...	slash@nodomain.xyz	Sports
13	TheDoctor	tomBaker@nodomai...	Music
14	TheDoctor	tomBaker@nodomai...	Personal

SQL Query

```
-- Retrieve UserName, EmailAddress, TagText for all User records ordered by UserName,
then Tag
SELECT
    vc_User.UserName,
    vc_User.EmailAddress,
    vc_Tag.TagText
FROM vc_UserTagList
JOIN vc_User ON vc_UserTagList.vc_UserID = vc_User.vc_UserID
JOIN vc_Tag ON vc_UserTagList.vc_TagID = vc_Tag.vc_TagID
ORDER BY vc_User.UserName, vc_Tag.TagText
```

SQL Query File

```
/*
    Author: Ryan Timbrook
    Course: IST 659 Data Admin Concepts & Db Mgmt
    Term: Summer, 2018
    Lab: 6, Querying Inserting Updating and Deleting
*/

-- Adding a row to the vc_Status table
INSERT INTO vc_Status(StatusText)
VALUES('Scheduled')

-- The following line shows all of the rows in vc_Status
SELECT * FROM vc_Status
```

```

-- Adding three more rows to the vc_Status table
INSERT INTO vc_Status(StatusText)
VALUES ('Started'),('Finished'),('On Time')

-- The following line shows all of the rows in vc_Status
SELECT * FROM vc_Status

-- Adding a vidcast record to the VidCast Table
SELECT * FROM vc_User WHERE UserName = 'SaulHudson'
SELECT * FROM vc_Status WHERE StatusText = 'Finished'

INSERT INTO vc_VidCast(VidCastTitle, StartDateTime, EndDateTime,
ScheduledDurationMinutes, RecordingURL, vc_UserID, vc_StatusID)
VALUES ('December Snow', '3/1/2018 14:00', '3/1/2018 14:30', 30, '/XVF1234', 2,
3)

-- Read all rows from vc_VidCast
SELECT * FROM vc_VidCast

-- Saul's First VidCast
SELECT
    vc_User.UserName,
    vc_User.EmailAddress,
    vc_VidCast.VidCastTitle,
    vc_VidCast.StartDateTime,
    vc_VidCast.EndDateTime,
    vc_VidCast.ScheduledDurationMinutes / 60.0 as ScheduledHours,
    vc_Status.StatusText
FROM vc_VidCast
JOIN vc_User ON vc_VidCast.vc_UserID = vc_User.vc_UserID
JOIN vc_Status ON vc_VidCast.vc_StatusID = vc_Status.vc_StatusID
WHERE vc_User.UserName = 'SaulHudson'
ORDER BY vc_VidCast.StartDateTime
-- End Saul's First

-- Correcting a User's UserRegisteredDate
UPDATE vc_User SET UserRegisteredDate = '3/1/2018' WHERE UserName = 'SaulHudson'

SELECT * FROM vc_User Where UserName = 'SaulHudson'
-- End Update

-- Deleting a record from the Status Table
-- See what rows we have in status
SELECT * FROM vc_Status

-- Delete the On time status
DELETE vc_Status WHERE StatusText = 'On time'

-- See the effect
SELECT * FROM vc_Status
-- End Deleting a record from the Status Table

/*
    Part 2 - Putting All Together
    In this part, you'll add some more data to the VidCast tables and write some
    queries to read the new data
*/

```

```

-- Adding Tags to the vc_Tag Table
INSERT INTO vc_Tag(TagText, TagDescription)
VALUES('Personal','About people'),('Professional','Business, business,
business'),('Sports','All manner of sports'),('Music','Music analysis, news, and
thoughts'),('Games','Live streaming our favorite games')

-- Retrieve all rows from vc_Tag Table
SELECT * from vc_Tag

-- Adding users to the vc_User table
INSERT INTO vc_User(Username,EmailAddress,UserDescription)
VALUES('TheDoctor','tomBaker@nodomain.xyz','The definite
article'),('HairCut','S.todd@nodomain.xyz','Fleet Street barber
shop'),('DnDGal','dnd@nodomain.xyz',NULL)

-- Retrieve all rows from vc_User table
SELECT * from vc_User

-- Inserting 14 rows into the vc_UserTagList
-- Run Select Statements to view UserID values before executing INSERT
SELECT vc_UserID FROM vc_User WHERE Username = 'DnDGal'
SELECT vc_UserID FROM vc_User WHERE Username = 'RDwight'
SELECT vc_UserID FROM vc_User WHERE Username = 'SaulHudson'
SELECT vc_UserID FROM vc_User WHERE Username = 'Gordon'
SELECT vc_UserID FROM vc_User WHERE Username = 'HairCut'
SELECT vc_UserID FROM vc_User WHERE Username = 'TheDoctor'
-- Run Select Statements to view TagID values before executing INSERT
SELECT vc_TagID FROM vc_Tag WHERE TagText = 'Sports'
SELECT vc_TagID FROM vc_Tag WHERE TagText = 'Professional'
SELECT vc_TagID FROM vc_Tag WHERE TagText = 'Personal'
SELECT vc_TagID FROM vc_Tag WHERE TagText = 'Games'
SELECT vc_TagID FROM vc_Tag WHERE TagText = 'Music'

INSERT INTO vc_UserTagList(vc_UserID,vc_TagID)
VALUES
((SELECT vc_UserID FROM vc_User WHERE Username = 'DnDGal'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Sports')), --DnDGal/Sports
((SELECT vc_UserID FROM vc_User WHERE Username = 'DnDGal'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Professional')), --DnDGal/Professional
((SELECT vc_UserID FROM vc_User WHERE Username = 'RDwight'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Professional')), --RDwight/Professional
((SELECT vc_UserID FROM vc_User WHERE Username = 'SaulHudson'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Sports')), --SaulHudson/Sports
((SELECT vc_UserID FROM vc_User WHERE Username = 'Gordon'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Personal')), --Gordon/Personal
((SELECT vc_UserID FROM vc_User WHERE Username = 'DnDGal'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Personal')), --DnDGal/Personal
((SELECT vc_UserID FROM vc_User WHERE Username = 'Gordon'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Games')), --Gordon/Games
((SELECT vc_UserID FROM vc_User WHERE Username = 'HairCut'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Professional')), --HairCut/Professional
((SELECT vc_UserID FROM vc_User WHERE Username = 'TheDoctor'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Music')), --TheDoctor/Music
((SELECT vc_UserID FROM vc_User WHERE Username = 'DnDGal'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Games')), --DnDGal/Games
((SELECT vc_UserID FROM vc_User WHERE Username = 'SaulHudson'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Games')), --SaulHudson/Games

```

```

((SELECT vc_UserID FROM vc_User WHERE UserName = 'Gordon'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Professional')), --Gordon/Professional
((SELECT vc_UserID FROM vc_User WHERE UserName = 'HairCut'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Music')), --HairCut/Music
((SELECT vc_UserID FROM vc_User WHERE UserName = 'TheDoctor'),(SELECT
vc_TagID FROM vc_Tag WHERE TagText = 'Personal')) --TheDoctor/Personal

-- Retrieve all rows from vc_UserTagList table
SELECT * FROM vc_UserTagList

-- Retrieve UserName, EmailAddress, TagText for all User records ordered by UserName,
then Tag
SELECT
    vc_User.UserName,
    vc_User.EmailAddress,
    vc_Tag.TagText
FROM vc_UserTagList
JOIN vc_User ON vc_UserTagList.vc_UserID = vc_User.vc_UserID
JOIN vc_Tag ON vc_UserTagList.vc_TagID = vc_Tag.vc_TagID
ORDER BY vc_User.UserName, vc_Tag.TagText

```