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## Lab 08 –

### Part 1 - Introducing Functions, Views, and Stored Procedures

1. Functions
   1. Screenshot 1 Page 3
2. Our First User-Defined Function
   1. Screenshot 2 Page 5
3. Functions That Are More Functional
   1. Screenshot 3 Page 8
   2. Explanation: In lines 49-53, we use the function VidCastCount which will count the number of times a particular user has made a VidCast (this function uses the information gather from the VidCast table). After executing this function, it will display the information (from the vc\_User table) of the top 10 users with the most vidcasts. The code knows that vc\_UserID = 20 has 22 vc\_VidCast records because it uses the VidCastCount function.
4. Performing Data Lookups
   1. Screenshot 4 Page 9
   2. Explanation: In line 75, we use the TagIDLookup which accepts a tag’s text (in this case ‘Music’). Then, it proceeds to look for this tag’s text in the vc\_Tag table. When it finds a match, it will return the TagID for the corresponding tag’s text (in this case the TagID is 4). For line 76, we look for the TagID for ‘Tunes’. Because there is no match, the function returns a NULL value.
5. Views
   1. Screenshot 5 Page 10
   2. Explanation: In line 79-87, we are storing a query we have done previously as permanent object called MostProlificUsers. Instead of writing the query over and over, we use a View that we pull out all the information from the query by just calling it in line 88. In summary, the View called MostProlificUsers will show the results of the top 10 users with the most VidCast (using the VidCastCount function).
6. Stored Procedures
   1. Screenshot 6 Page 11
   2. Explanation: In line 91-100, we create a procedure to update the email of a user. It has two parameters. The first one is the userName (which is a string of 20 characters), and the second one is newEmail (which is a string of 50 characters). In line 102, we execute the procedure. We change the email address of the user called ‘tardy’. In line 104, we are verifying that change. We look for the user ‘tardy’ in the vc\_User table and we can confirm the change.
7. @@identity
   1. Screenshot 7 Page 12
   2. Screenshot 8 Page 13
   3. Explanation:\*\*\*

### Part 2- Putting All Together

1. Coding Your Own Functions
   1. Screenshot 9 Page 15
   2. Screenshot 10 Page 15
   3. Screenshot 11 Page 16
2. Coding Your Own Views
   1. Screenshot 12 Page 17
   2. Screenshot 13 Page 18
3. Coding Your Own Stored Procedures
   1. Screenshot 14 Page 19
   2. Screenshot 15 Page 20

### SQL Query File