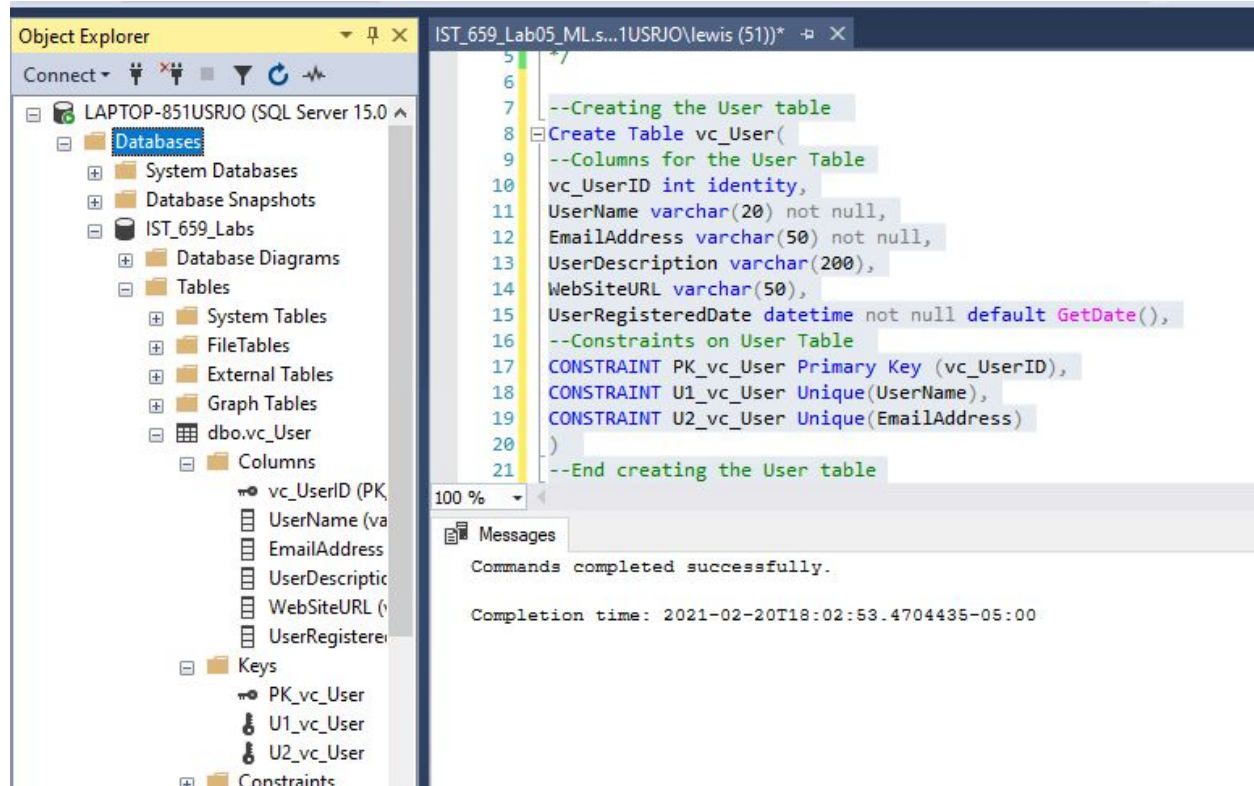


Part 1: Creating Tables

User Table

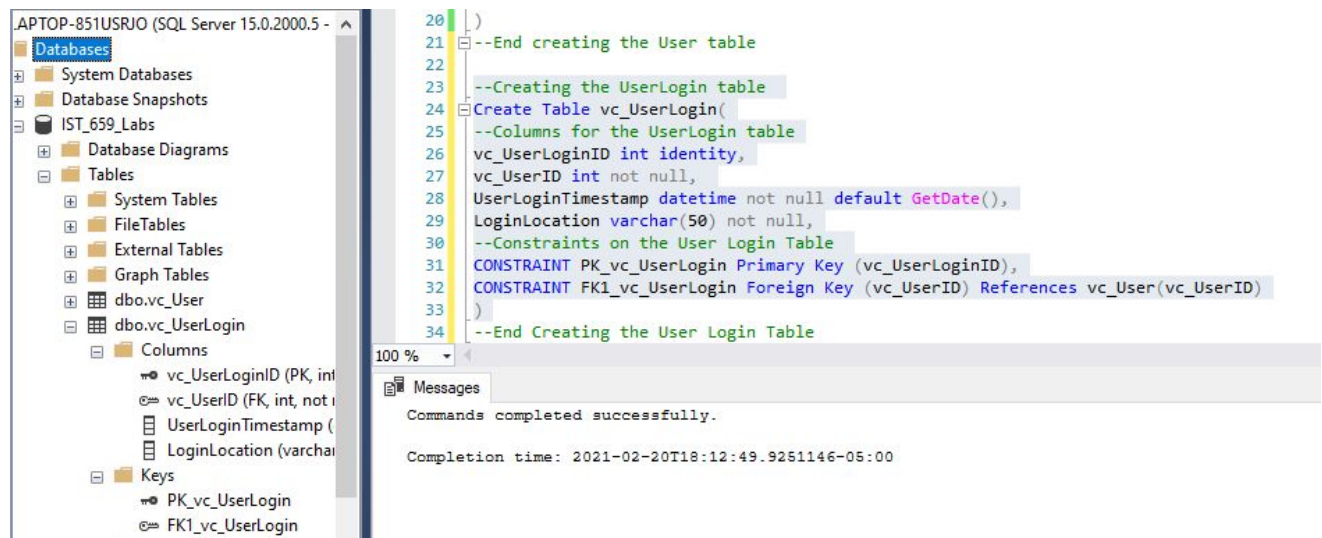


The screenshot displays the SQL Server Enterprise Manager interface on the left, showing the database structure for 'LAPTOP-851USRJO (SQL Server 15.0)'. The 'Databases' folder is expanded, showing 'IST_659_Labs' and its 'Tables' folder. The 'dbo' schema is selected, and the 'vc_User' table is visible under 'Columns'. The right pane shows the SQL Query Editor with the following T-SQL script:

```
5 1
6
7 --Creating the User table
8 Create Table vc_User(
9 --Columns for the User Table
10 vc_UserID int identity,
11 UserName varchar(20) not null,
12 EmailAddress varchar(50) not null,
13 UserDescription varchar(200),
14 WebSiteURL varchar(50),
15 UserRegisteredDate datetime not null default GetDate(),
16 --Constraints on User Table
17 CONSTRAINT PK_vc_User Primary Key (vc_UserID),
18 CONSTRAINT U1_vc_User Unique(UserName),
19 CONSTRAINT U2_vc_User Unique(EmailAddress)
20 )
21 --End creating the User table
```

The Messages pane at the bottom indicates that the commands were completed successfully and provides the completion time: 2021-02-20T18:02:53.4704435-05:00.

User Login Table



The screenshot displays the SQL Server Enterprise Manager interface on the left, showing the database structure for 'LAPTOP-851USRJO (SQL Server 15.0.2000.5)'. The 'Databases' folder is expanded, showing 'IST_659_Labs' and its 'Tables' folder. The 'dbo' schema is selected, and the 'vc_UserLogin' table is visible under 'Columns'. The right pane shows the SQL Query Editor with the following T-SQL script:

```
20 )
21 --End creating the User table
22
23 --Creating the UserLogin table
24 Create Table vc_UserLogin(
25 --Columns for the UserLogin table
26 vc_UserLoginID int identity,
27 vc_UserID int not null,
28 UserLoginTimestamp datetime not null default GetDate(),
29 LoginLocation varchar(50) not null,
30 --Constraints on the User Login Table
31 CONSTRAINT PK_vc_UserLogin Primary Key (vc_UserLoginID),
32 CONSTRAINT FK1_vc_UserLogin Foreign Key (vc_UserID) References vc_User(vc_UserID)
33 )
34 --End Creating the User Login Table
```

The Messages pane at the bottom indicates that the commands were completed successfully and provides the completion time: 2021-02-20T18:12:49.9251146-05:00.

User records

```
36 --Adding Data to the User table
37 Insert into vc_User(UserName, EmailAddress, UserDescription)
38 Values
39 ('RDwright', 'rdwright@nodomain.xyz', 'Piano Teacher'),
40 ('SaulHudson', 'slash@nodomain.xyz', 'I like Les Paul guitars'),
41 ('Gordon', 'summer@nodomain.xyz', 'Former cop')
42
43 select * from vc_User
```

100 %

Results Messages

	vc_UserID	UserName	EmailAddress	UserDescription	WebSiteURL	UserRegisteredDate
1	1	RDwright	rdwright@nodomain.xyz	Piano Teacher	NULL	2021-02-20 18:18:22.440
2	2	SaulHudson	slash@nodomain.xyz	I like Les Paul guitars	NULL	2021-02-20 18:18:22.440
3	3	Gordon	summer@nodomain.xyz	Former cop	NULL	2021-02-20 18:18:22.440

User Tables

dbo.vc_FollowerList

- Columns
 - vc_FollowerListID (PK, int, not null)
 - FollowerID (FK, int, not null)
 - FollowedID (int, not null)
 - FollowerSince (datetime, not null)
- Keys
 - PK_vc_FollowerList
 - FK1_vc_FollowerList
 - FK2_vc_FollowerList
 - U1_vc_FollowerList
- Constraints
- Triggers
- Indexes

```
44
45 --Creating the Followe List table
46 Create Table vc_FollowerList(
47 --Columns for the follower List table
48 vc_FollowerListID int identity,
49 FollowerID int not null,
50 FollowedID int not null,
51 FollowerSince datetime not null,
52 --Constraints on the Follower List table
53 CONSTRAINT PK_vc_FollowerList Primary Key (vc_FollowerListID),
54 CONSTRAINT U1_vc_FollowerList Unique (FollowerID, FollowedID),
55 CONSTRAINT FK1_vc_FollowerList Foreign Key (FollowerID) References vc_User(vc_UserID),
56 CONSTRAINT FK2_vc_FollowerList Foreign Key (FollowedID) References vc_User(vc_UserID)
57 )
58 --End creating the Follower List table
```

Part 2: The Rest of the Tables

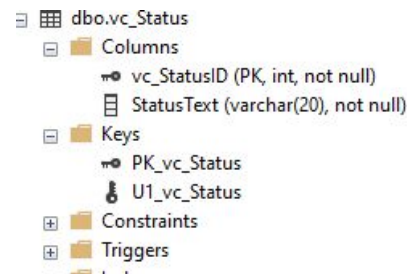
Tag Tables

dbo.vc_Tag

- Columns
 - vc_TagID (PK, int, not null)
 - TagText (varchar(20), not null)
 - TagDescription (varchar(100), not null)
- Keys
 - PK_vc_Tag
 - U1_vc_Tag
- Constraints
- Triggers
- Indexes

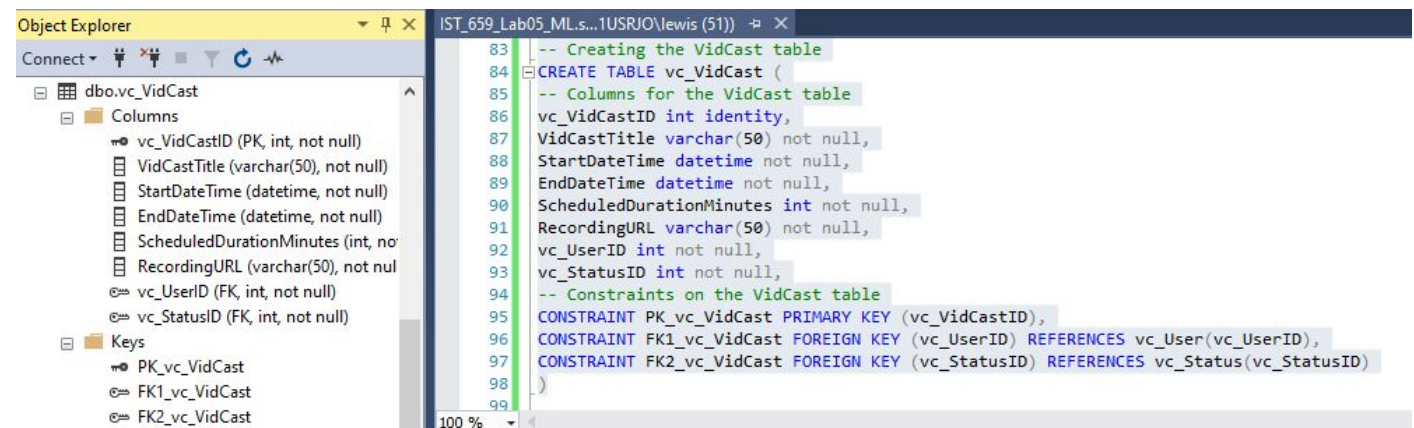
```
61 Create Table vc_Tag(
62 --Columns for the Tag table
63 vc_TagID int identity,
64 TagText varchar(20) not null,
65 TagDescription varchar(100) not null,
66 --Constraints on the Tag table
67 CONSTRAINT PK_vc_Tag Primary Key (vc_TagID),
68 CONSTRAINT U1_vc_Tag Unique (TagText)
69 )
70 --End Creating the Tag table
```

Status Tables



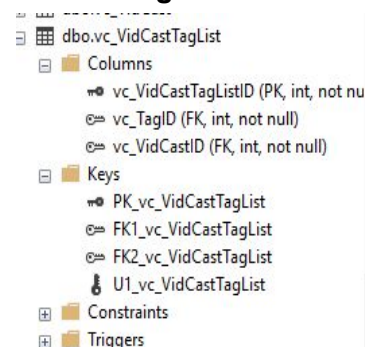
```
72 --Creating the Status table
73 CREATE TABLE vc_Status(
74 --Columns for the Status table
75 vc_StatusID int identity,
76 StatusText varchar(20) not null,
77 --Constraints on the Status table
78 CONSTRAINT PK_vc_Status Primary Key (vc_StatusID),
79 CONSTRAINT U1_vc_Status Unique (StatusText)
80 )
81 --End Creating the Status table
```

VidCast Tables



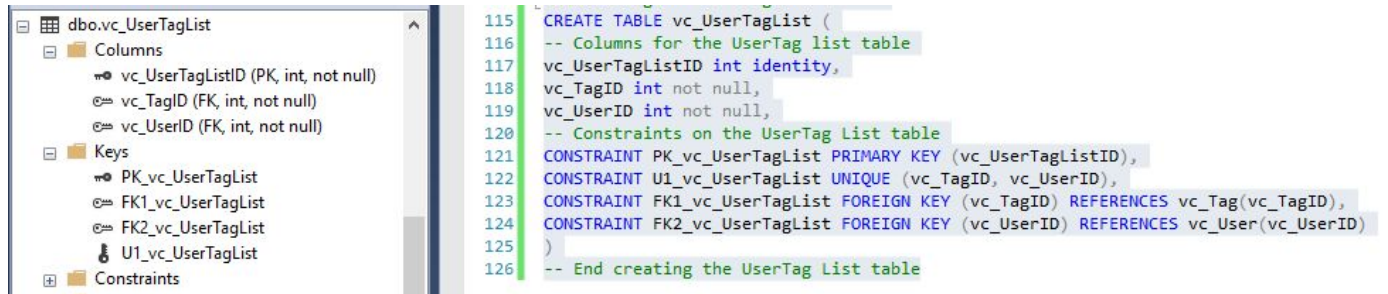
```
83 -- Creating the VidCast table
84 CREATE TABLE vc_VidCast (
85 -- Columns for the VidCast table
86 vc_VidCastID int identity,
87 VidCastTitle varchar(50) not null,
88 StartDateTime datetime not null,
89 EndDateTime datetime not null,
90 ScheduledDurationMinutes int not null,
91 RecordingURL varchar(50) not null,
92 vc_UserID int not null,
93 vc_StatusID int not null,
94 -- Constraints on the VidCast table
95 CONSTRAINT PK_vc_VidCast PRIMARY KEY (vc_VidCastID),
96 CONSTRAINT FK1_vc_VidCast FOREIGN KEY (vc_UserID) REFERENCES vc_User(vc_UserID),
97 CONSTRAINT FK2_vc_VidCast FOREIGN KEY (vc_StatusID) REFERENCES vc_Status(vc_StatusID)
98 )
99
```

VidCastTagList Tables



```
100 -- Creating the VidCastTag List table
101 CREATE TABLE vc_VidCastTagList (
102 -- Columns for the VidCastTag list table
103 vc_VidCastTagListID int identity,
104 vc_TagID int not null,
105 vc_VidCastID int not null,
106 -- Constraints on the VidCastTag List table
107 CONSTRAINT PK_vc_VidCastTagList PRIMARY KEY (vc_VidCastTagListID),
108 CONSTRAINT U1_vc_VidCastTagList UNIQUE (vc_TagID, vc_VidCastID),
109 CONSTRAINT FK1_vc_VidCastTagList FOREIGN KEY (vc_TagID) REFERENCES vc_Tag(vc_TagID),
110 CONSTRAINT FK2_vc_VidCastTagList FOREIGN KEY (vc_VidCastID) REFERENCES vc_VidCast(vc_VidCastID)
111 )
112 -- End creating the VidCastTag List table
113
```

UserTagList Tables



The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'dbo.vc_UserTagList' table is selected, showing its structure under the 'Columns' and 'Keys' folders. The 'Columns' folder lists three columns: 'vc_UserTagListID' (PK, int, not null), 'vc_TagID' (FK, int, not null), and 'vc_UserID' (FK, int, not null). The 'Keys' folder lists four keys: 'PK_vc_UserTagList', 'FK1_vc_UserTagList', 'FK2_vc_UserTagList', and 'U1_vc_UserTagList'. On the right, the T-SQL script for creating the table is shown, starting at line 115 and ending at line 126. The script includes comments for columns and constraints, and defines the primary key, unique key, and foreign keys.

```
115 CREATE TABLE vc_UserTagList (  
116 -- Columns for the UserTag list table  
117 vc_UserTagListID int identity,  
118 vc_TagID int not null,  
119 vc_UserID int not null,  
120 -- Constraints on the UserTag List table  
121 CONSTRAINT PK_vc_UserTagList PRIMARY KEY (vc_UserTagListID),  
122 CONSTRAINT U1_vc_UserTagList UNIQUE (vc_TagID, vc_UserID),  
123 CONSTRAINT FK1_vc_UserTagList FOREIGN KEY (vc_TagID) REFERENCES vc_Tag(vc_TagID),  
124 CONSTRAINT FK2_vc_UserTagList FOREIGN KEY (vc_UserID) REFERENCES vc_User(vc_UserID)  
125 )  
126 -- End creating the UserTag List table
```