IS 664 Fall 2021

Imperial_defense

EXAM 1 ALTERNATE
STORED PROCEDURES AND FUNCTIONS

PROFESSOR HG LOCKLEAR

GENERAL

- This is Exam 1 Alternate; it will replace your previous Exam 1 attempt.
- Read the task carefully and write the code necessary to create the defined Stored Procedure.
- Create a single SQL script containing all the code for the Task.
- The Stored Procedure should be created in the imperial_defense database.
- The Stored Procedure must utilize a cursor to retrieve all required data and may not have hardcoded values.
- The Stored Procedure may include user-defined and native functions.
- Utilize your MySQL documentation.
- Be conscious of good style and eliminate extraneous code from your SQL script.
- The time limit for the exam is 2.5 hours.

Task

Create the Stored Procedure widget_Refactor that accepts no parameters and creates, populates, and displays the first 10 rows of table R_Widget

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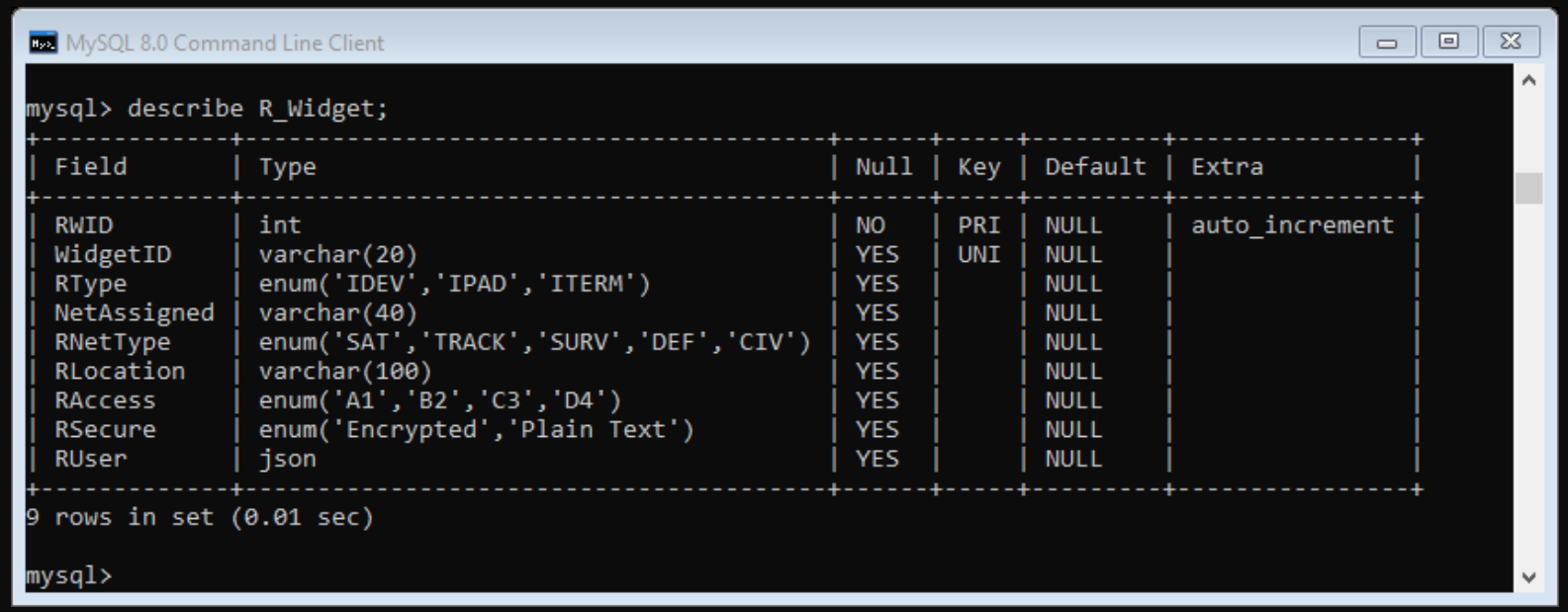
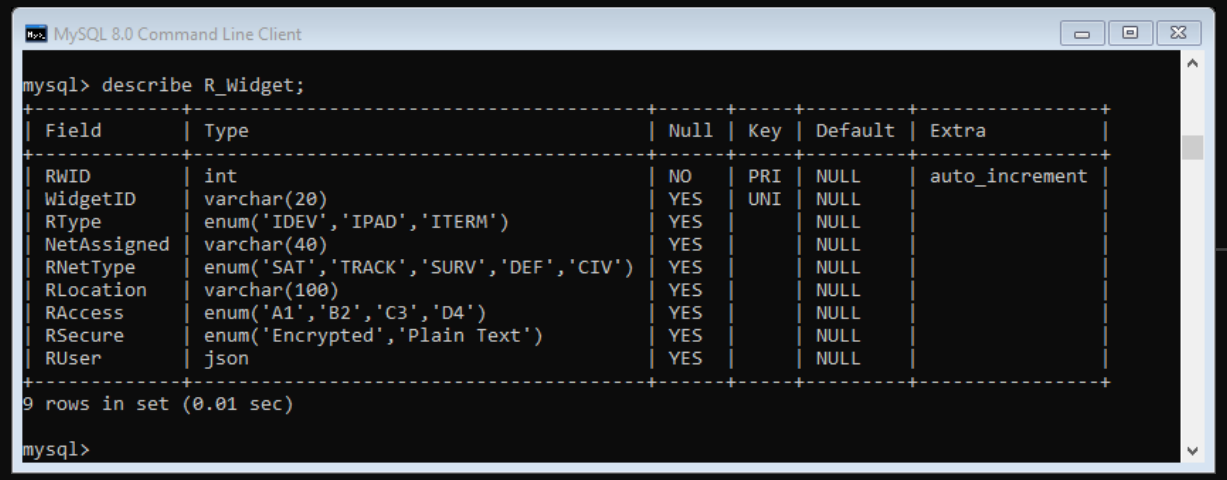
The R_Widget table (structure shown below).



Maintains referential integrity with widget

Conversion Rules

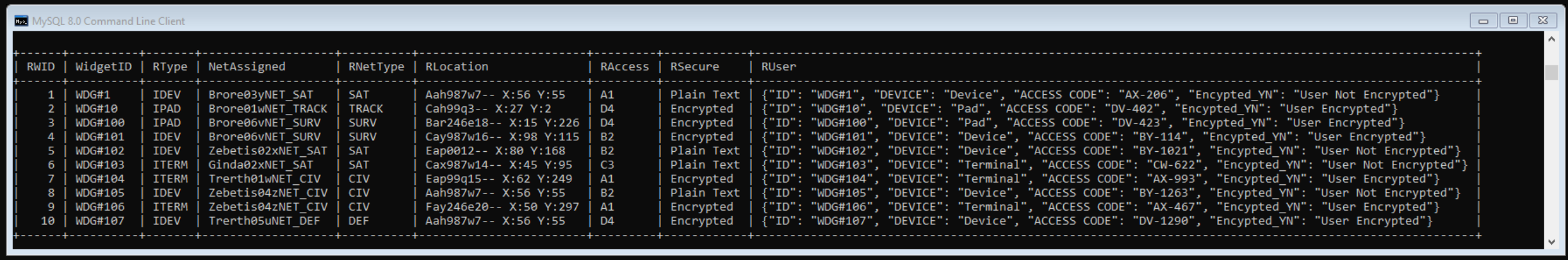


- Conversion of WType into RType: Device = IDEV Pad = IPAD Terminal = ITERM
- Conversion of AssignedTo to RNetType: Suffix of each Network corresponds to RNetType
- Conversion of Location to RLocation: Concatenation of Location and the XCoord and YCoord of the Location in the format shown.
- Conversion of AccessCode to RAccess: Access code contains ‘A’ convert to ‘A1’, contains ‘B’ convert to ‘B2’, contains C convert to ‘C3’ contains ‘D’ convert ‘D4’
- Conversion of Secure to RSecure: True becomes ‘Encrypted’ and False becomes ‘Plain Text’

RUser Construction			
ID	DEVICE	ACCESS CODE	Encrypted_YN
WID	WType	AccessCode	Encrypted = ‘User Encrypted’ Plain Text = ‘User Not Encrypted’

Task: EXPECTED OUTPUT

Execution of the widgetRefactor procedure should produce the following output.



RWID	WidgetID	RType	NetAssigned	RNetType	RLocation	RAccess	RSecure	RUser
1	WDG#1	IDEV	Brore03yNET_SAT	SAT	Aah987w7-- X:56 Y:55	A1	Plain Text	{"ID": "WDG#1", "DEVICE": "Device", "ACCESS CODE": "AX-206", "Encypted_YN": "User Not Encrypted"}
2	WDG#10	IPAD	Brore01wNET_TRACK	TRACK	Cah99q3-- X:27 Y:2	D4	Encrypted	{"ID": "WDG#10", "DEVICE": "Pad", "ACCESS CODE": "DV-402", "Encypted_YN": "User Encrypted"}
3	WDG#100	IPAD	Brore06vNET_SURV	SURV	Bar246e18-- X:15 Y:226	D4	Encrypted	{"ID": "WDG#100", "DEVICE": "Pad", "ACCESS CODE": "DV-423", "Encypted_YN": "User Encrypted"}
4	WDG#101	IDEV	Brore06vNET_SURV	SURV	Cay987w16-- X:98 Y:115	B2	Encrypted	{"ID": "WDG#101", "DEVICE": "Device", "ACCESS CODE": "BY-114", "Encypted_YN": "User Encrypted"}
5	WDG#102	IDEV	Zebetis02xNET_SAT	SAT	Eap0012-- X:80 Y:168	B2	Plain Text	{"ID": "WDG#102", "DEVICE": "Device", "ACCESS CODE": "BY-1021", "Encypted_YN": "User Not Encrypted"}
6	WDG#103	ITERM	Ginda02xNET_SAT	SAT	Cax987w14-- X:45 Y:95	C3	Plain Text	{"ID": "WDG#103", "DEVICE": "Terminal", "ACCESS CODE": "CW-622", "Encypted_YN": "User Not Encrypted"}
7	WDG#104	ITERM	Trerth01wNET_CIV	CIV	Eap99q15-- X:62 Y:249	A1	Encrypted	{"ID": "WDG#104", "DEVICE": "Terminal", "ACCESS CODE": "AX-993", "Encypted_YN": "User Encrypted"}
8	WDG#105	IDEV	Zebetis04zNET_CIV	CIV	Aah987w7-- X:56 Y:55	B2	Plain Text	{"ID": "WDG#105", "DEVICE": "Device", "ACCESS CODE": "BY-1263", "Encypted_YN": "User Not Encrypted"}
9	WDG#106	ITERM	Zebetis04zNET_CIV	CIV	Fay246e20-- X:50 Y:297	A1	Encrypted	{"ID": "WDG#106", "DEVICE": "Terminal", "ACCESS CODE": "AX-467", "Encypted_YN": "User Encrypted"}
10	WDG#107	IDEV	Trerth05uNET_DEF	DEF	Aah987w7-- X:56 Y:55	D4	Encrypted	{"ID": "WDG#107", "DEVICE": "Device", "ACCESS CODE": "DV-1290", "Encypted_YN": "User Encrypted"}