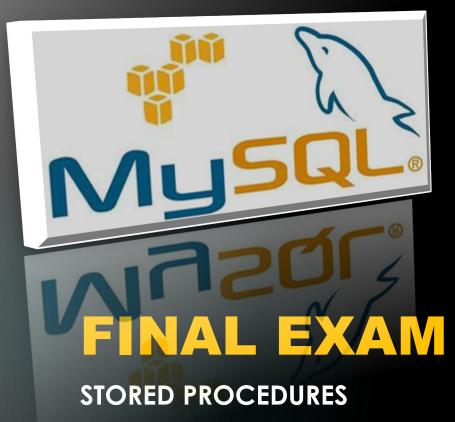
EXAM

IS664 Database Programming Spring 2022



Professor HG Locklear hlocklear@pace.edu

GENERAL

- •This is your FINAL EXAM.
- •You receive 30 points for a CORRECT solution.
- •Read the task <u>carefully</u> 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 MUST be created in the imperial_defense database.
- •The Stored Procedure MUST utilize one or more cursors to retrieve all required data and MAY NOT have hardcoded values.
- •You MAY NOT use any SELECT ...INTO statements in your procedure.
- •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 EXAM is due on Tuesday May 10 at 9 PM.

TASK

Create the stored procedure SummarizeNetwork which accepts a single parameter and creates/populates/displays the tables NetworkWidgets_EVEN, NetworkWidgets_ODD, NetworkSchema_Components

Parameter: The name of a Network.

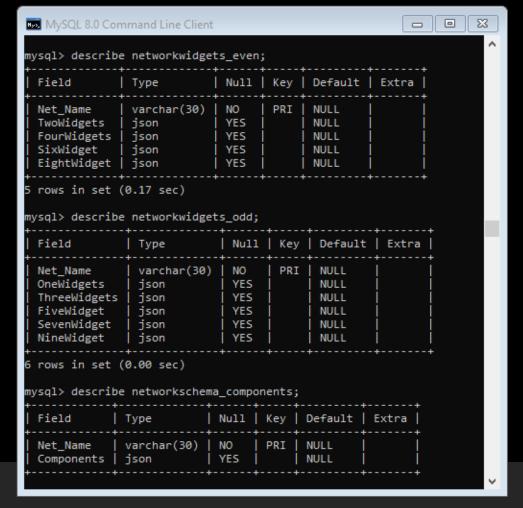
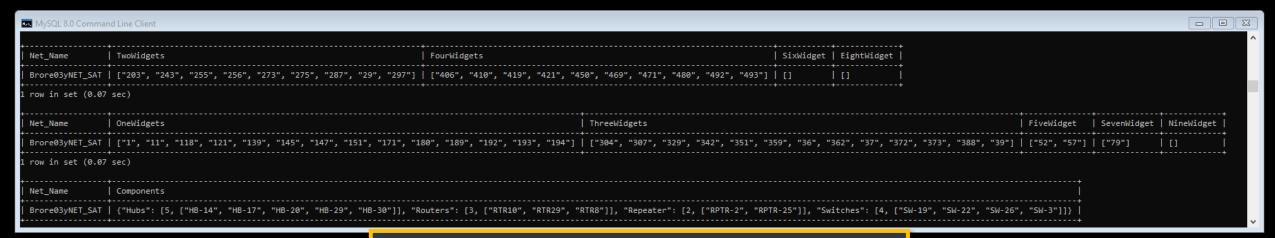


Table	Description
networkwidgets_even	Contains all the even Widget WID numbers assigned to the specified Network organized according to the first digit of their WID and stored as JSON Arrays.
networkwidgets_odd	Contains all the odd Widget WID numbers assigned to the specified Network organized according to the first digit of their WID and stored as JSON Arrays.
networkschema_components	Contains the number of routers, hubs, repeaters, and switches, with their associated IDs, assigned to the specified Network as a JSON Object with Key-Value pairs as shown.

EXPECTED OUTPUT

Call the procedure with the following parameters



CALL SummarizeNetwork('Brore03yNET_SAT');

EXPECTED OUTPUT

Call the procedure with the following parameter

```
| Net_Name | Twoklingets | Fourwidgets | FiveWidget | SevenWidget | NineWidget | NineWidget | FiveWidget | NineWidget | NineWidget | FiveWidget | SevenWidget | NineWidget | FiveWidget | SevenWidget | NineWidget | FiveWidget | FiveWidget | SevenWidget | NineWidget | FiveWidget | FiveWidge
```

CALL SummarizeNetwork('Zebetis05uNET_CIV');