Project 4 Screen Shots:

Authentication Screen:

A screen shot of a computer

Description automatically generated

Failed Authentication screen:

A white rectangular sign with black text

Description automatically generated

# Command 1: Query: list the supplier number and supplier name for those suppliers who ship every part.

A screen shot of a computer

Description automatically generated

# Command 2 is a multi-part sequence that will trigger the business logic.  
# The first part is a query to illustrate all supplier information before the update.  
# The second part performs the update and causes the business logic to trigger.  
# The third part is a query that illustrates all supplier information after the update/  
#  
# Command 2A: Query: list all supplier information.

A screenshot of a computer screen

Description automatically generated

# Command 2B: add a new record to shipments table (S5, P6, J7, 400)

A screenshot of a computer screen

Description automatically generated

# Command 2C: list all supplier information.

* You can see in the screenshot below Jenson and Beryl Burton were both changed to 9

A screenshot of a computer

Description automatically generated

###########################################################  
# Command 3 is a multi-part that does not cause the business logic to trigger  
# Command 3A list all supplier information

A screenshot of a computer

Description automatically generated

# Command 3B: add a new record to the supplier table (S39, Candice Swanepoel, 10,  
Cardiff)

A screen shot of a computer screen

Description automatically generated

# Command 3C: list all supplier information.

A screenshot of a computer

Description automatically generated

# Command 3D: add a new record to shipments table (S39, P3, J1, 20), business logic  
will trigger

A screenshot of a computer screen

Description automatically generated

# Command 3E: list all supplier information

A screenshot of a computer

Description automatically generated

###########################################################  
# Command 4: List the snum, sname, and pnum for those suppliers who ship the  
# same part to every job. This is a fairly complex SQL nested query.

A screenshot of a computer

Description automatically generated

###########################################################  
# Command 5 is a multipart transaction that will cause the business logic to  
trigger  
#  
# The first part is a query to illustrate all shipment information before the  
update.  
# The second part performs the update and causes the business logic to trigger.  
# The third part is a query that illustrates all shipment information after the  
update/  
#  
# Command 5A: List all supplier information

A screenshot of a computer

Description automatically generated

# Command 5B: List all shipment information

A screenshot of a computer

Description automatically generated

# Command 5C: Update the shipments table by increasing the quantity by 10 every  
shipment of part P3.

A screenshot of a computer screen

Description automatically generated

# Command 5D: List all shipment informationA screenshot of a computer

Description automatically generated

# Command 5E: List all supplier information

A screenshot of a computer

Description automatically generated

###########################################################  
# Command 6: List the snum, and sname for those suppliers who ship only green  
parts.  
# Output should list only supplier number S44 (Beryl Burton)

A screen shot of a computer

Description automatically generated

############################################################  
# Command 7: This will generate an intentional error in command syntax.  
# Output should show the error message generated by catching an SQLEception

A screenshot of a computer

Description automatically generated

############################################################  
# Command 8: This will not trigger the business logic.  
# Output should show the message indicating that the command was executed but the  
business logic has not triggered

A screen shot of a computer

Description automatically generated

#############################################################  
# Command 9: Verify that command #8 did in fact update the jobs table

A screenshot of a computer

Description automatically generated

#############################################################  
# Command 10: This is a basic select command using an aggregation operator  
# Business logic not triggered and no table is updated.

A screen shot of a computer

Description automatically generated

# Client level user command script  
# CNT 4714 - Spring 2024 - Project 4  
# This script contains the commands that a client-level user will issue against the  
# Project4 database (supplier/parts/jobs/shipments. Due to the restrictions on the  
client-level user, the  
# business logic cannot be triggered by any input from this category of user.  
#

###########################################################  
# Command 1: Query: list the supplier number and supplier name for those suppliers  
who ship every green part.  
# This should return supplier S6 (Nicola Giannberti).

A screen shot of a computer

Description automatically generated

############################################################  
# Command 2: This command will not execute for the client-level user.  
# Output should show the message indicating that the command was denied to the  
client-level user.

A screenshot of a computer error

Description automatically generated

#############################################################  
# Command 3: This is a basic select command using an aggregation operator  
# Business logic not triggered and no table is updated.

A screenshot of a computer

Description automatically generated

#############################################################  
# Command 4: This command will not execute for the client-level user.  
# Output should show the message indicating that the command was denied to the  
client-level user.

A screenshot of a computer error

Description automatically generated

# Data entry level user command script  
# CNT 4714 - Spring 2024 - Project 4  
# This script contains the commands that a cdata-entyr-level user will issue  
against the  
# project3 database (supplier/parts/jobs/shipments). Due to the restrictions on  
the data entry level user  
# only inserts are allowed. Project 4 incoporates server-side  
# business logic that manipulates the status of a supplier when certain conditions  
involving shipment quantity are triggered.  
# This business logic can be impacted by this user.  
#  
# Note that this is technically not an SQL script file, but I have shown the  
corresponding SQL commands in the comments.  
#

###########################################################  
# Command 1: Insert new shipment record for supplier S5.  
# This will work ok. Business logic not triggered  
# insert into shipments values ("S39", "P6", "J4", 33);

A screen shot of a computer

Description automatically generated

############################################################  
# Command 2: This command will not execute due to a referential integrity  
violation

A screen shot of a computer

Description automatically generated

#############################################################  
# Command 3: This command will work.  
# insert into suppliers values("S90","Anna-Frieda",34,"Stockholm");

A screen shot of a computer

Description automatically generated

#############################################################  
# Command 4: This command will work.  
# insert into jobs values ("J90","Top Secret Job",3,"Stockholm");

A screen shot of a computer

Description automatically generated

#############################################################  
# Command 5: This command will work and trigger the business logic.  
# insert into shipments values("S39","P6","J6",500);

A screen shot of a data entry form

Description automatically generated

#############################################################  
# Command 6: This command will work and not trigger the business logic.  
# insert into parts values("P90","U-plate","black",50,"Cardiff");

A screen shot of a computer

Description automatically generated

#############################################################  
# Command 7: This command will not work.  
# insert into shipments values("S39","P6","J6",35);

A screen shot of a computer

Description automatically generated

#############################################################  
# Command 8: This command will work and trigger the business logic.  
# insert into shipments values("S90","P90","J90",500);

A screen shot of a computer

Description automatically generated

// Theses are the commands for the accountant user for Project 4  
// Note that these are not sql commands, just selections.  
//  
// Command 1  
choose First Option  
//

A screenshot of a computer

Description automatically generated

// Command 2  
choose Second Option  
//

A screenshot of a computer screen

Description automatically generated

// Command 3  
choose Third Option  
//

A screenshot of a computer screen

Description automatically generated

// Command 4  
choose Fourth Option  
//

A screenshot of a computer screen

Description automatically generated

// Command 5  
choose Fifth Option  
//

A screenshot of a computer screen

Description automatically generated