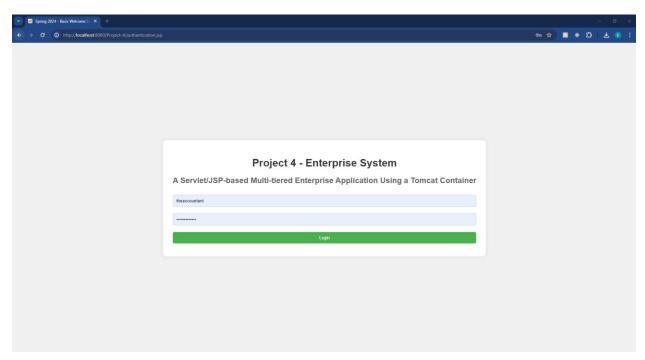
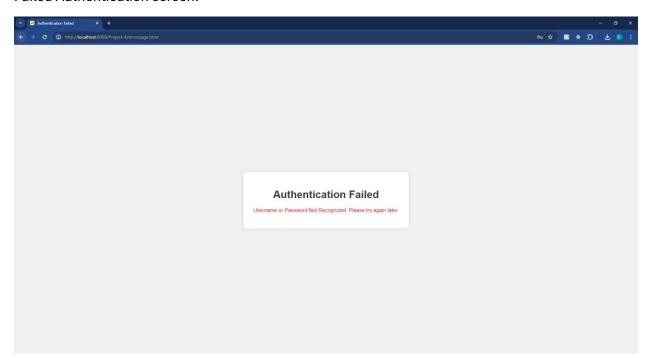
# Project 4 Screen Shots:

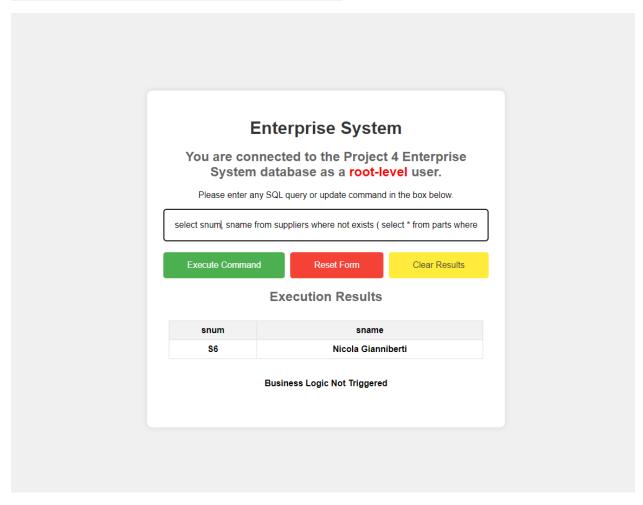
## Authentication Screen:



## Failed Authentication screen:



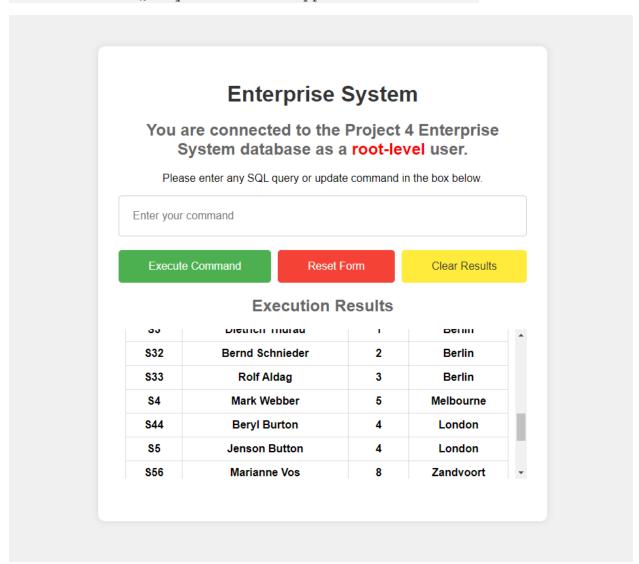
# Command 1: Query: list the supplier number and supplier name for those suppliers who ship every part.

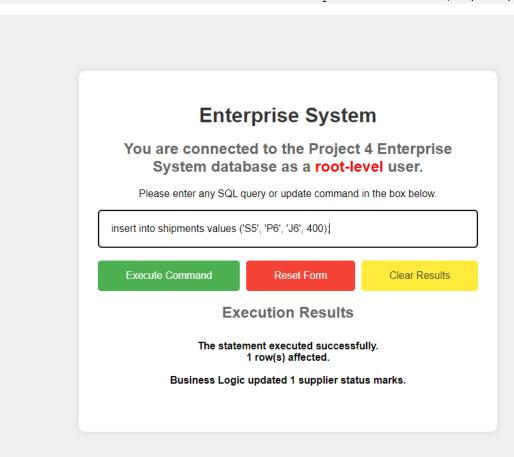


- # Command 2 is a multi-part sequence that will trigger the business logic.
- # The first part is a query to illustrate all supplier information before the update.
- # The second part performs the update and causes the business logic to trigger.
- # The third part is a query that illustrates all supplier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

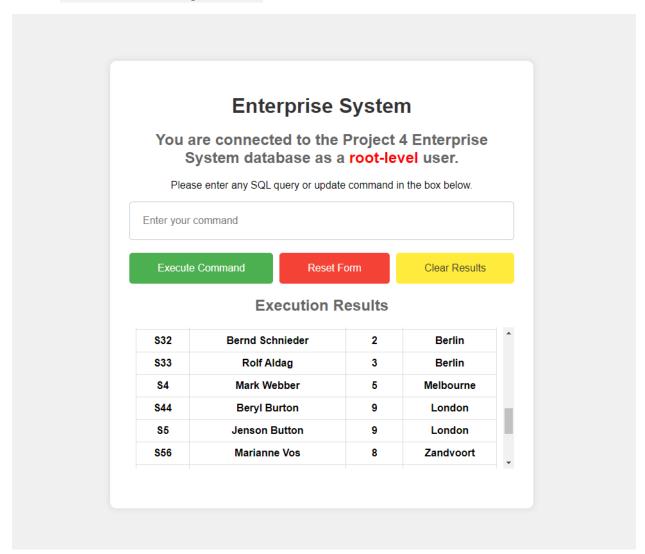
#

# Command 2A: Query: list all supplier information.



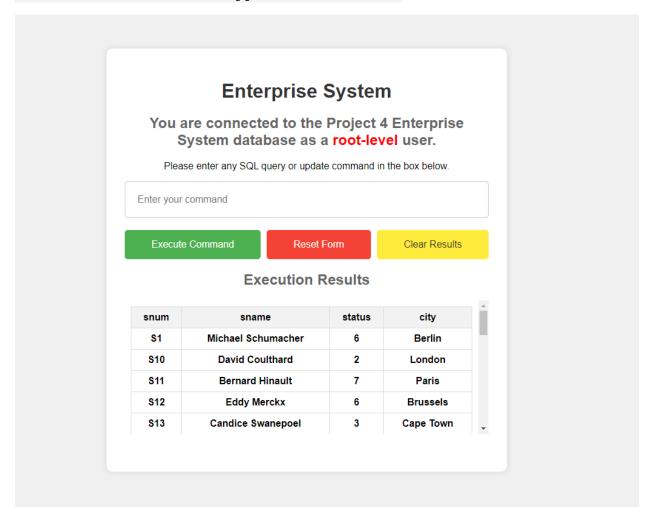


- # Command 2C: list all supplier information.
  - You can see in the screenshot below Jenson and Beryl Burton were both changed to 9

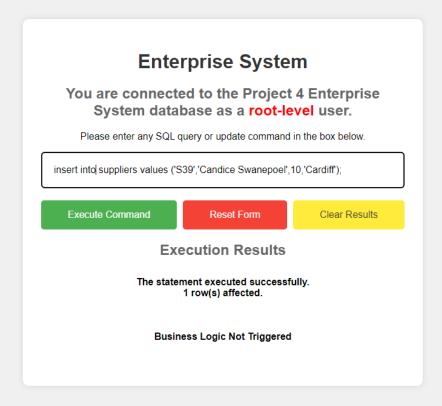


# Command 3 is a multi-part that does not cause the business logic to trigger

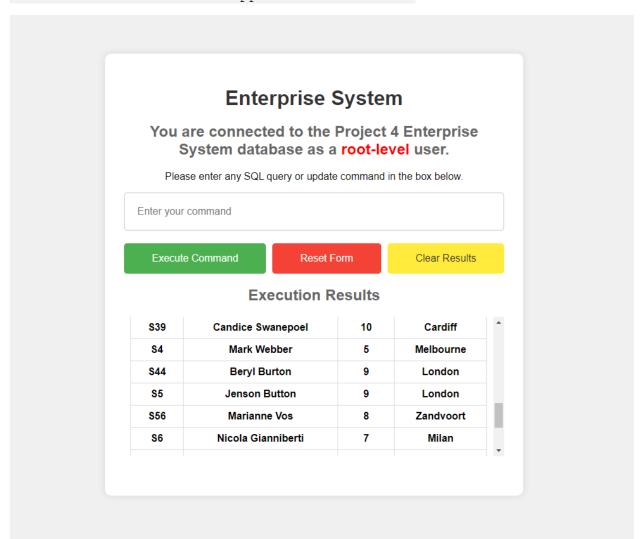
# Command 3A list all supplier information



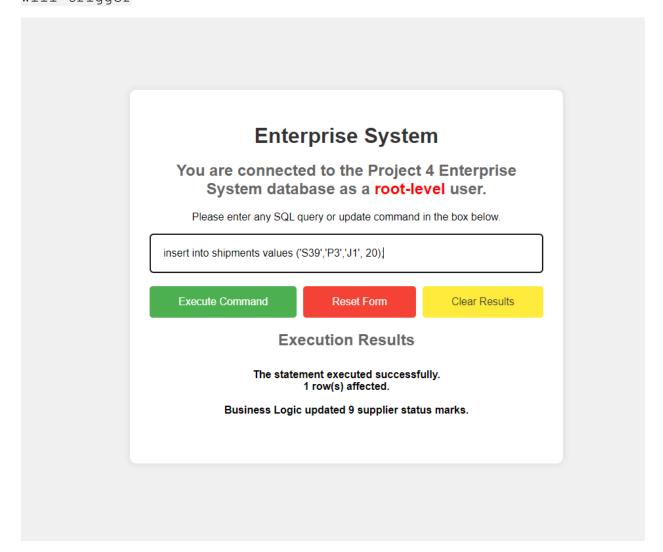
# Command 3B: add a new record to the supplier table (S39, Candice Swanepoel, 10, Cardiff)

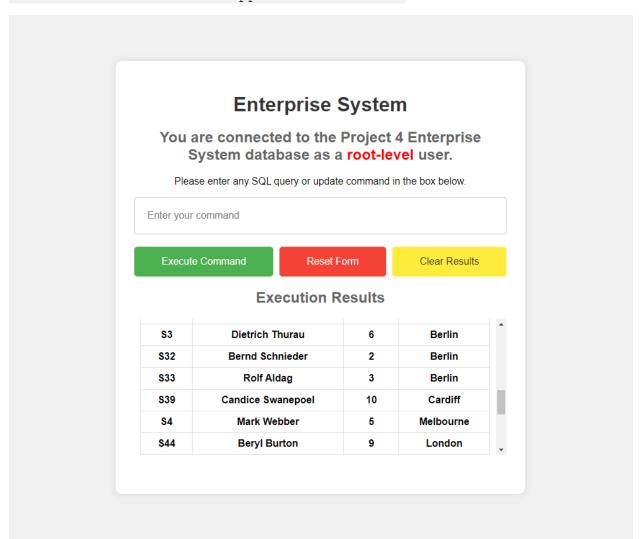


# Command 3C: list all supplier information.

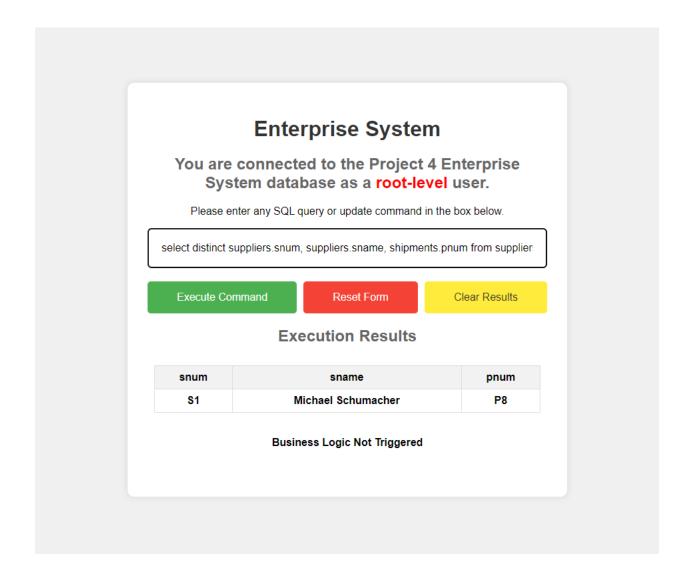


# Command 3D: add a new record to shipments table (S39, P3, J1,
20), business logic
will trigger





- # 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.



 $\mbox{\#}$  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

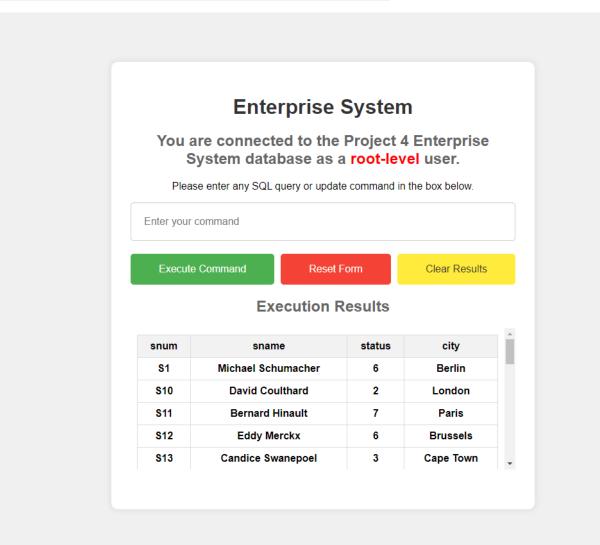
update.

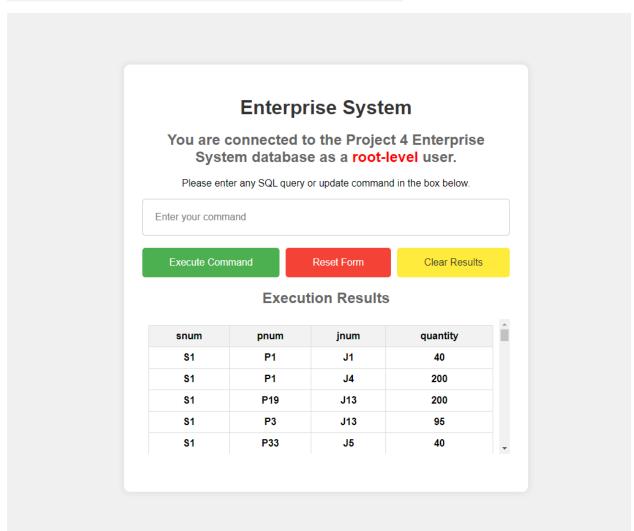
# The second part performs the update and causes the business logic to trigger.

# The third part is a query that illustrates all shipment
information after the
update/

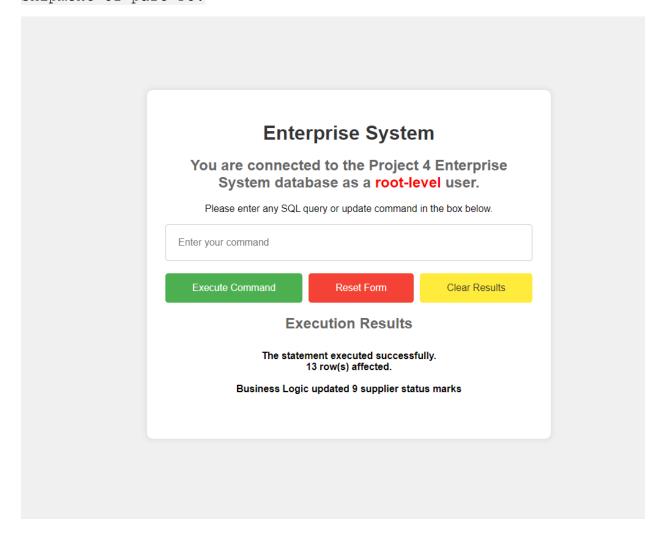
#

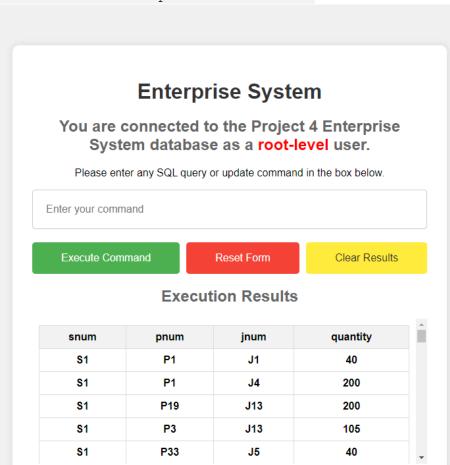
# Command 5A: List all supplier information

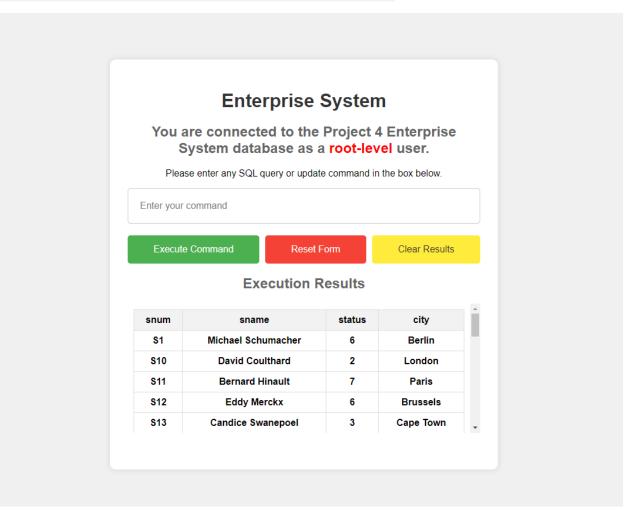




# Command 5C: Update the shipments table by increasing the quantity by 10 every shipment of part P3.

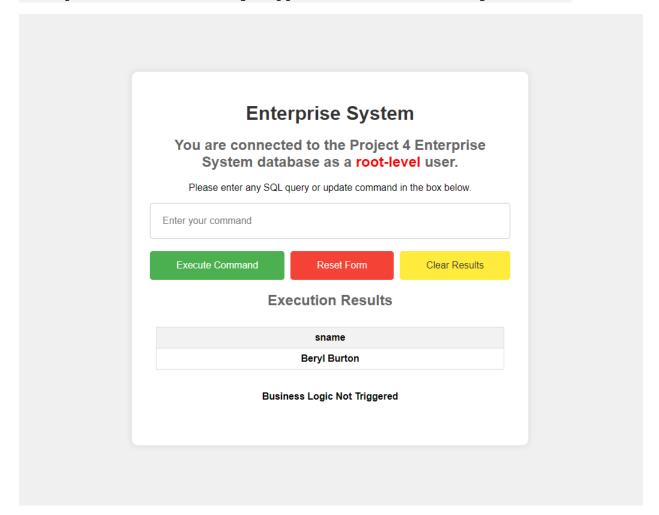




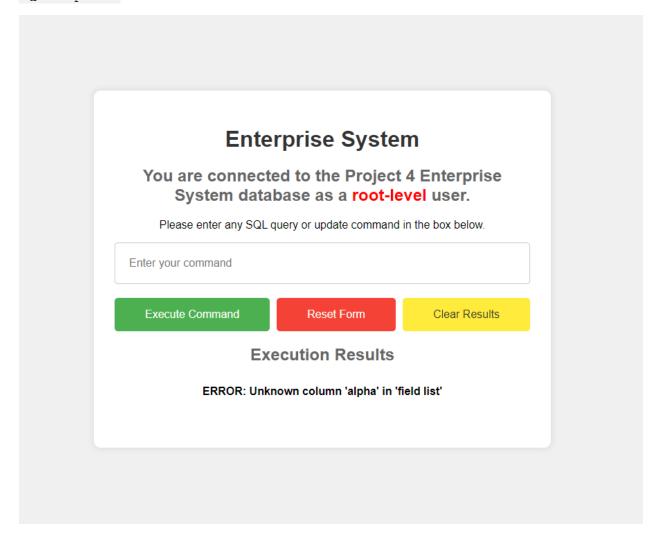


# Command 6: List the snum, and sname for those suppliers who ship only green parts.

# Output should list only supplier number S44 (Beryl Burton)

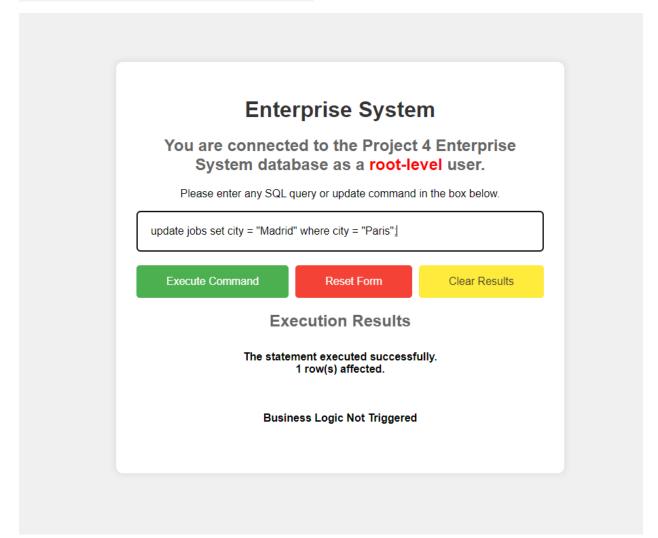


- # Command 7: This will generate an intentional error in command syntax.
- # Output should show the error message generated by catching an SQLEception

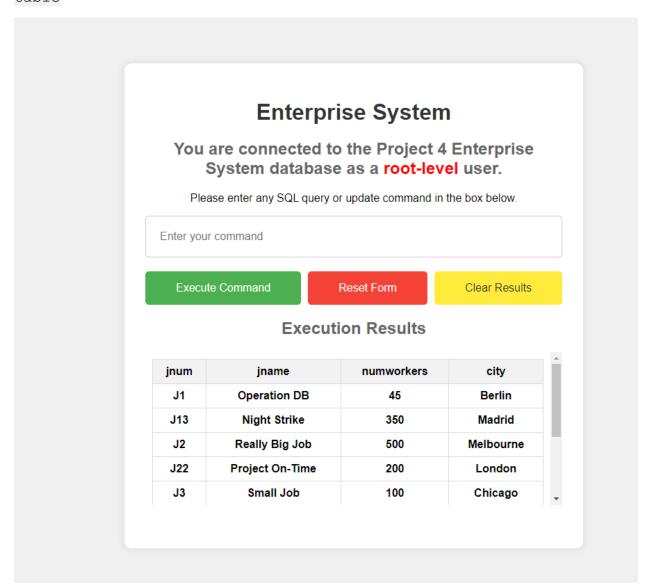


- # Command 8: This will not trigger the business logic.
- # Output should show the message indicating that the command was executed but the

business logic has not triggered

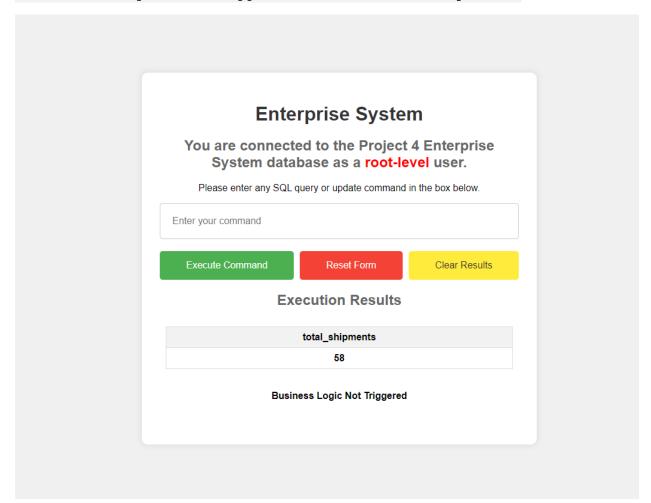


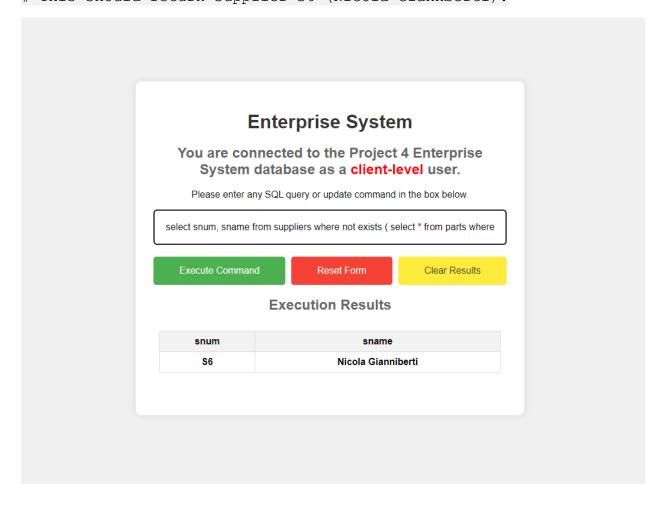
# Command 9: Verify that command #8 did in fact update the jobs table



# Command 10: This is a basic select command using an aggregation operator

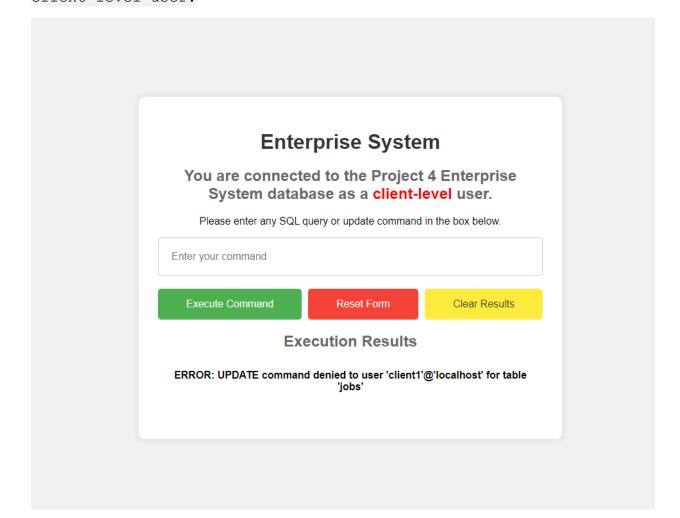
# Business logic not triggered and no table is updated.





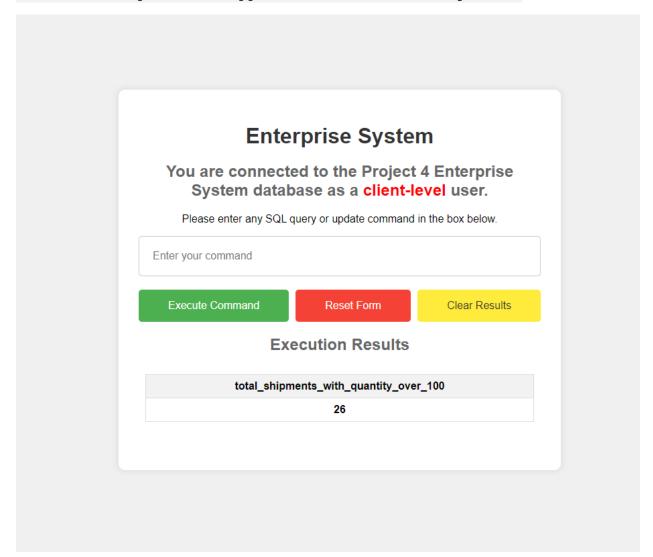
# Command 2: This command will not execute for the client-level user.

# Output should show the message indicating that the command was denied to the client-level user.



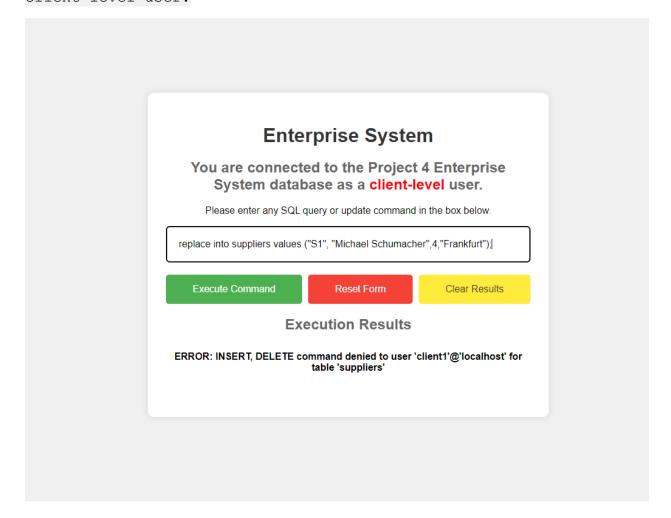
# Command 3: This is a basic select command using an aggregation operator

# Business logic not triggered and no table is updated.



# 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.



```
# 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.
```

# This will work ok. Business logic not triggered

# insert into shipments values ("S39", "P6", "J4", 33);

	Er	iter your	data below:		
Supply Number:	Supply Name	e:	Status:	City:	
Enter supply number	Enter supply name		Enter status	Enter city	
Enter Supplie	er Record into Datab	ase	Clea	ar Data and Results	
Part Number:	Part Name:	Color:	Weight:	City:	
Enter part numbε	Enter part name	Enter cold	enter weig	ght Enter city	
Enter Part F	Record into Databas	6 <del>0</del>	Clea	ar Data and Results	
Job Number:	Job Name:		numworkers:	City:	
Enter job number	Enter job nam	ne	Enter numworkers	Enter city	
Enter Job F	Record into Databas	e	Clea	ar Data and Results	
Supply Number:	Parts Numbe	er:	Job Number:	quantity:	
Enter supply number	Enter parts nu	ımber	Enter job number	Enter quantity	
Enter Shipmer	nt Record into Datat	oase	Clea	ar Data and Results	

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

Supply Number:	Supply Name	<b>:</b> :	Status:	City:	
Enter supply number	Enter supply r	name	Enter status	Enter city	
Enter Supp	lier Record into Datab	ase	Cle	ar Data and Results	
Part Number:	Part Name:	Color:	Weight:	City:	
Enter part numbe	Enter part name	Enter color	r Enter wei	ght Enter city	
Enter Par	t Record into Databas	e	Cle	ar Data and Results	
Job Number:	Job Name:	е	numworkers:	City:	
Enter job number			Enter numworkers		
Enter job number	Enter job nam	e	Enter numworkers	Enter city	
Enter job number  Enter Job	Parts Numbe	e er:	Enter numworkers  Cle	Enter city ar Data and Results	
Enter job number  Enter Job  Supply Number:	Parts Numbe	e er:	Cle Job Number:	Enter city  ar Data and Results  quantity:	

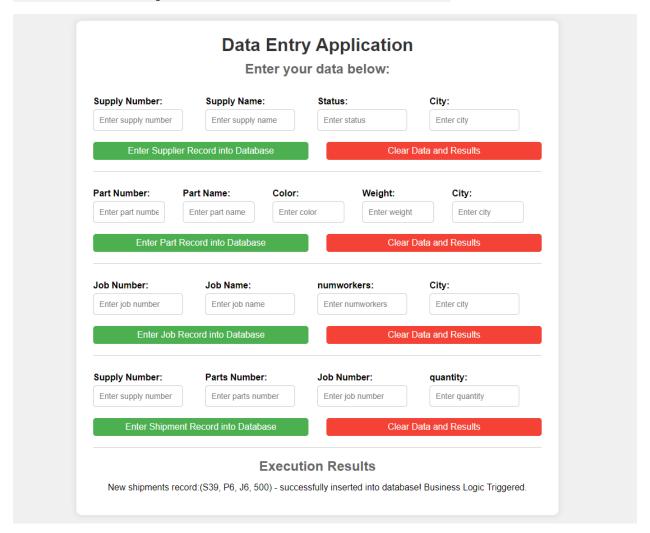
- # Command 3: This command will work.
- # insert into suppliers values("S90", "Anna-Frieda", 34, "Stockholm");

	Er	nter your	data belov	V:		
Supply Number:	Supply Nam	e:	Status:	(	City:	
Enter supply number	Enter supply name		Enter status		Enter city	
Enter Suppli	er Record into Datab	oase		Clear Data	and Results	
Part Number:	Part Name:	Color:	Weig	jht:	City:	
Enter part numbe	Enter part name	Enter colo	r Ent	er weight	Enter city	
Enter Part	Record into Databas	se		Clear Data	and Results	
Job Number:	Job Name:		numworkers:	(	City:	
Enter job number	Enter job nan	ne	Enter numworke	rs	Enter city	
Enter Job	Record into Databas	se		Clear Data	and Results	
Supply Number:	Parts Number	er:	Job Number:	C	juantity:	
Enter supply number	Enter parts no	umber	Enter job numbe	r [	Enter quantity	
Enter Shipme	ent Record into Data	base		Clear Data	and Results	
			n Results			

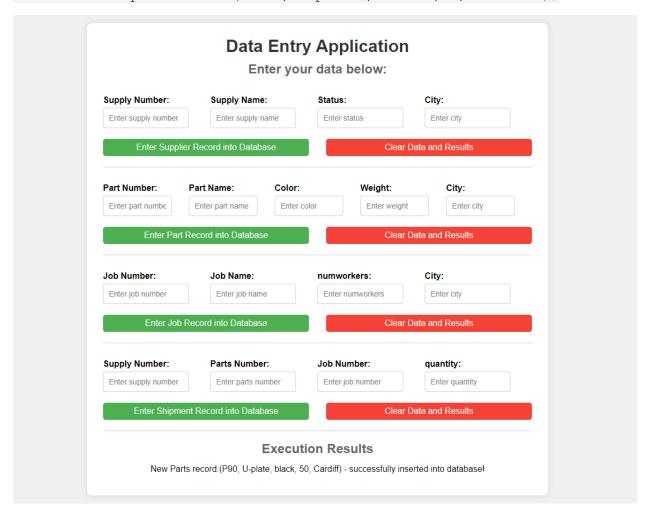
- # Command 4: This command will work.
- # insert into jobs values ("J90", "Top Secret Job", 3, "Stockholm");

Supply Number:	Supply Name:	St	atus:	City:	
Enter supply number	Enter supply na	ame	inter status	Enter city	
Enter Suppl	ier Record into Databa	se	Clea	ar Data and Results	
Part Number:	Part Name:	Color:	Weight:	City:	
Enter part numbe	Enter part name	Enter color	Enter weig	ght Enter city	
Enter Par	t Record into Database	<b>;</b>	Clea	ar Data and Results	
Job Number:	Job Name:	nu	mworkers:	City:	
Enter job number	Enter job name	E	inter numworkers	Enter city	
Enter Job	Record into Database		Clea	ar Data and Results	
Supply Number:	Parts Number	: Jo	b Number:	quantity:	
Enter supply number	Enter parts nur	nber	inter job number	Enter quantity	
Enter Shipm	ent Record into Databa	ase	Clea	ar Data and Results	

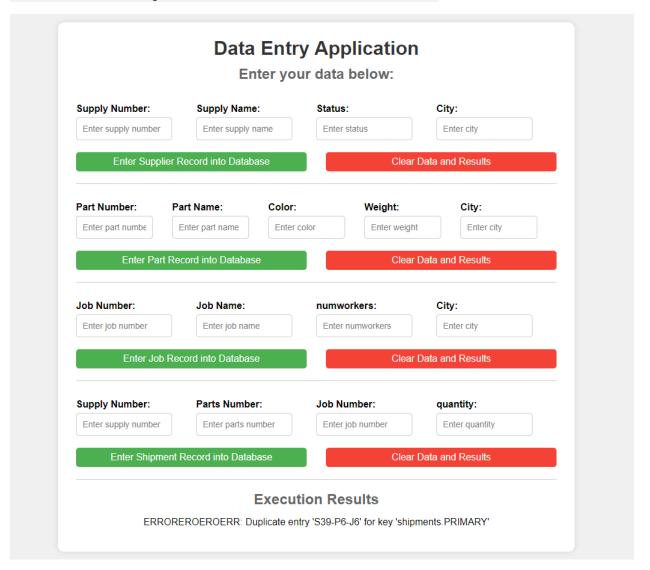
- # Command 5: This command will work and trigger the business logic.
- # insert into shipments values("S39","P6","J6",500);



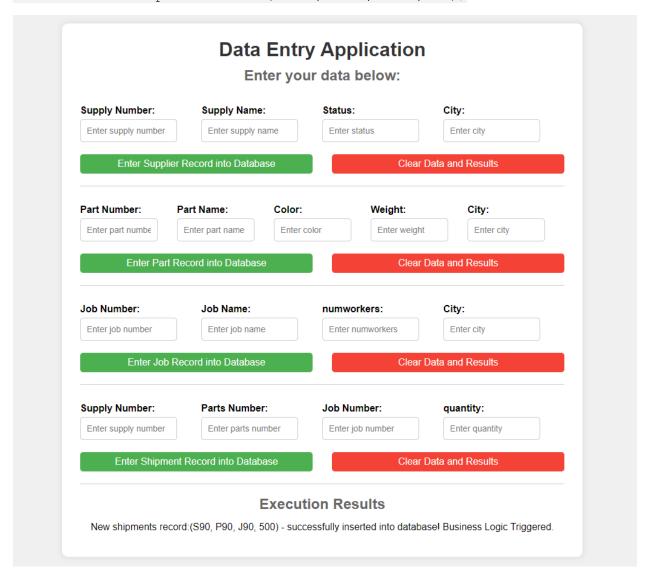
- # Command 6: This command will work and not trigger the business logic.
- # insert into parts values("P90", "U-plate", "black", 50, "Cardiff");



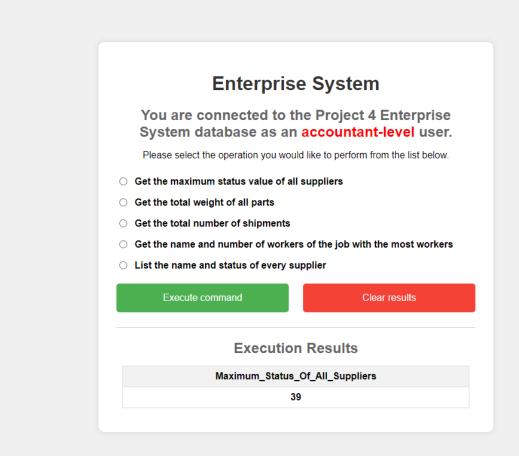
- # Command 7: This command will not work.
- # insert into shipments values("S39","P6","J6",35);



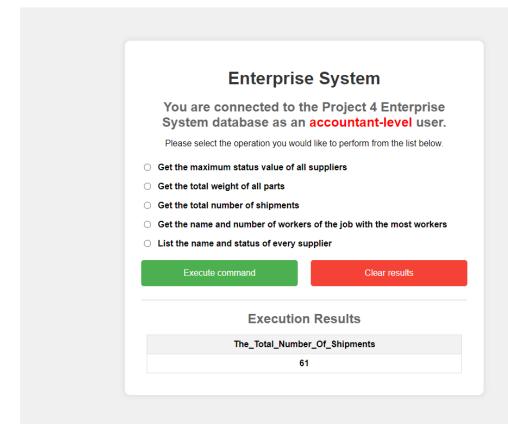
- # Command 8: This command will work and trigger the business logic.
- # insert into shipments values("S90","P90","J90",500);

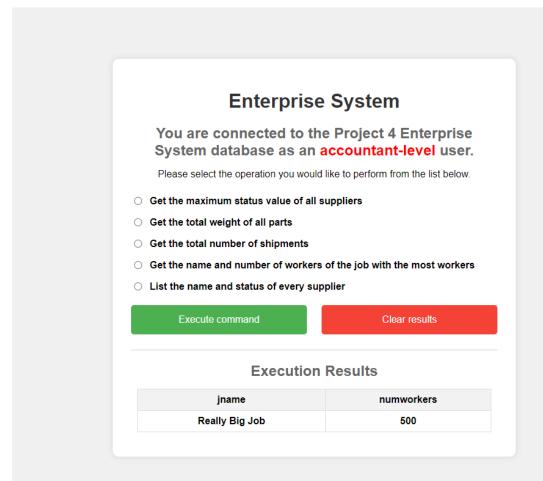


```
// Theses are the commands for the accountant user for Project 4
// Note that these are not sql commands, just selections.
//
// Command 1
choose First Option
//
```



# Enterprise System You are connected to the Project 4 Enterprise System database as an accountant-level user. Please select the operation you would like to perform from the list below. Get the maximum status value of all suppliers Get the total weight of all parts Get the total number of shipments Get the name and number of workers of the job with the most workers List the name and status of every supplier Execute command Clear results Execution Results Sum\_Of\_All\_Part\_Weights 143





# **Enterprise System**

You are connected to the Project 4 Enterprise System database as an accountant-level user.

Please select the operation you would like to perform from the list below.

- O Get the maximum status value of all suppliers
- O Get the total weight of all parts
- O Get the total number of shipments
- O Get the name and number of workers of the job with the most workers
- O List the name and status of every supplier

Execute command

Clear results

### **Execution Results**

		-
sname	status	
Michael Schumacher	16	
David Coulthard	2	
Bernard Hinault	7	
Eddy Merckx	16	
Candice Swanepoel	3	-