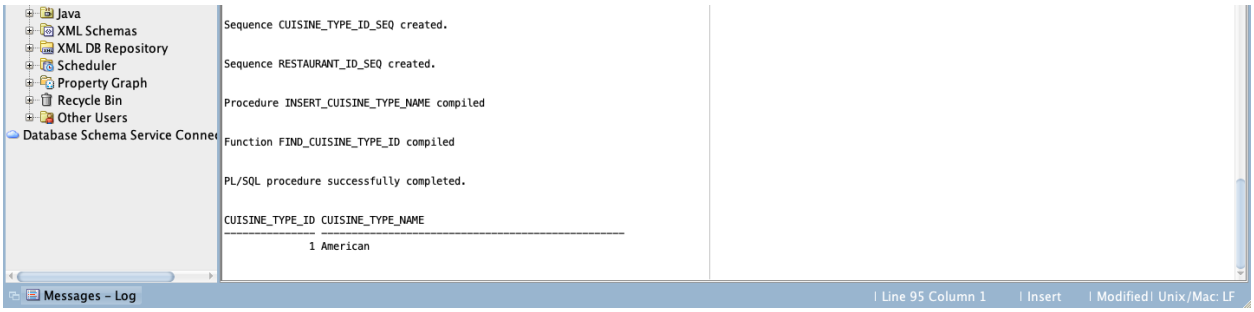
Deliverable 3 - TEAM 5

Members:
Nandhu Unnikrishnan (Member 1)
Nauman Choudhary (Member 2)
Gia Bao Vo (Member 3)
Sadia Alam (Member 4)
Shikha Gondalia (Member 5)

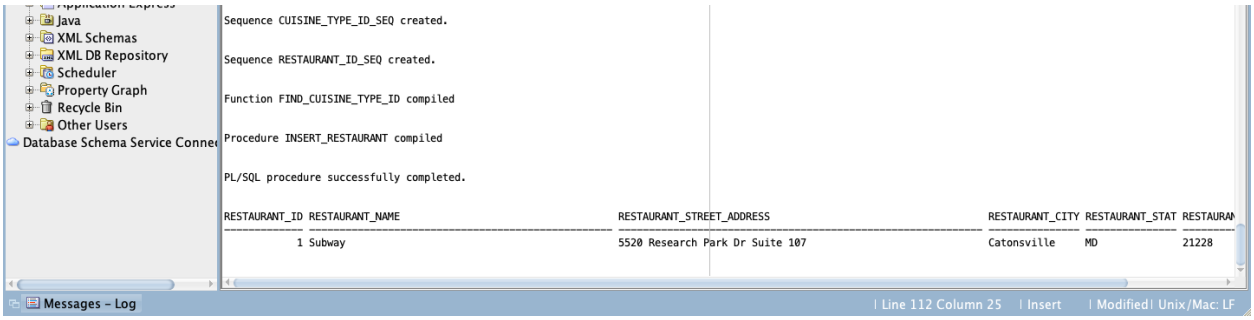
Member 1: Nandhu Unnikrishnan

Responsible for the Cuisine Types and Restaurants tables. Must create these tables.

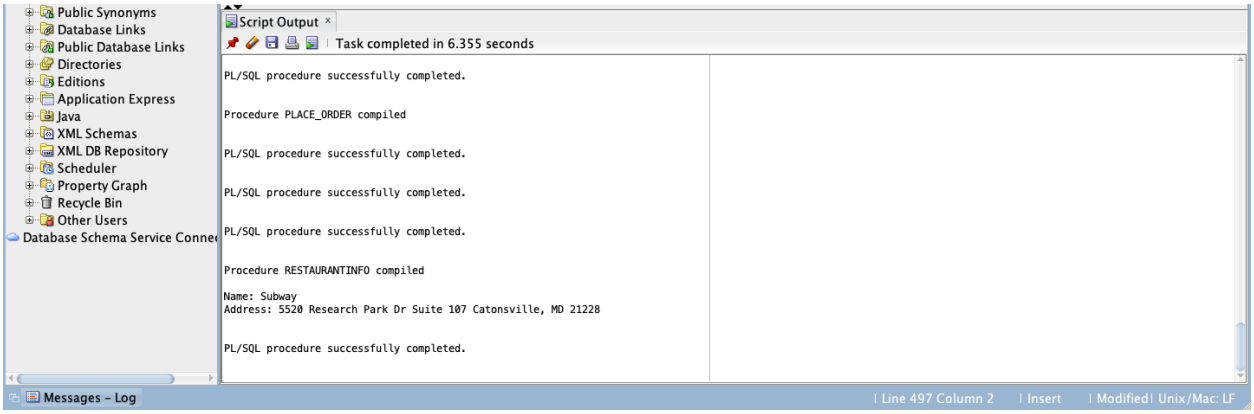
1. Add cuisine type: Given the name of a cuisine type, add it to the table. The cuisine type is the input parameter to the PL/SQL procedure.



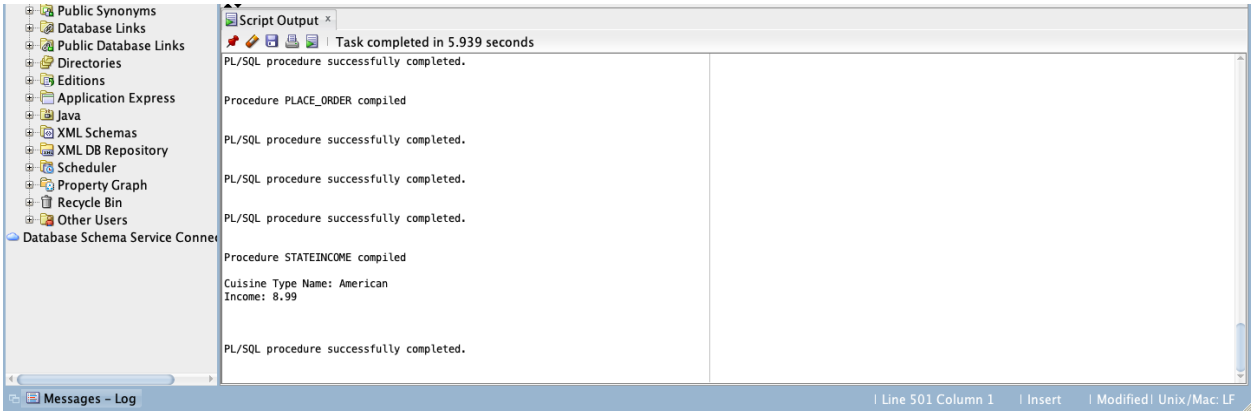
2. Add restaurant: Add a new restaurant in the table with all pertinent input information.



3. Display restaurant by cuisine: Given a cuisine type, show name and address about all restaurants that offer that cuisine.



4. Report Income by state. Generate a report that lists the income of restaurants per cuisine type and per state.



Member 2: Nauman Choudhary

Responsible for the Waiters table. Must create the table.

5. Hire waiter: Given all pertinent information as parameters, hire a waiter at a restaurant. The waiter name and restaurant ID must be input parameters. Use the function FIND_RESTAURANT_ID (see helper functions below) first to get the rID.

	WAITER_ID	WAITER_NAME	RESTAURANT_NAME
1	1	Nauman	HotDawg
2	2	Bao	HotDawg
3	3	Nandhu	Pizza Palace
4	4	Sadia	Windows Cookies
5	5	Shikha	Pizza Palace
6	6	John	Subway
7	7	Marry Johnson	Chick-fil-A
8	8	Tony Parker	Kabob Place

6. Show list of waiters: Given a restaurant ID (you need to call the appropriate helper function), show all info about each employee

	RESTAURANT_ID	RESTAURANT_NAME	RESTAURANT_STREET_ADDRESS	RESTAURANT_CITY	RESTAURANT_STATE	RESTAURANT_ZIP	CUISINE_TYPE_ID
1	1	Subway	5520 Research Park Dr Suite 107	Catonsville	MD	21228	1
2	2	HotDawg	21 Westcott	Liverpool	CA	14156	3
3	3	Pizza Palace	45 Eastdoor	New York City	NY	12307	3
4	4	Windows Cookies	99 Southeast	New York City	NY	98425	1
5	5	Donald	1234	germantown	NY	12230	5
6	6	rubby	23456	hewlett	MD	32124	4
7	7	Chick-fil-A	100 Hiltop Circle	Baltimore	MD	20904	1
8	8	Kabob Place	200 Melody Dr	Baltimore	MD	20904	2

7. Report tips: Show total tips by each waiter.

```
Procedure WAITER_TIPS compiled

Waiter ID          Waiter Name                Total TIP Earned
---------          -----------                ----------------
1                  Marry Johnson              $2.80
2                  Tony Parker                $2.40


PL/SQL procedure successfully completed.
```

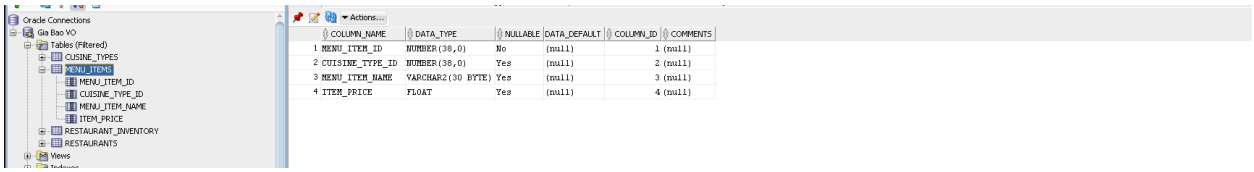
8. Report tips by state: Show total tips earned by waiters per state.

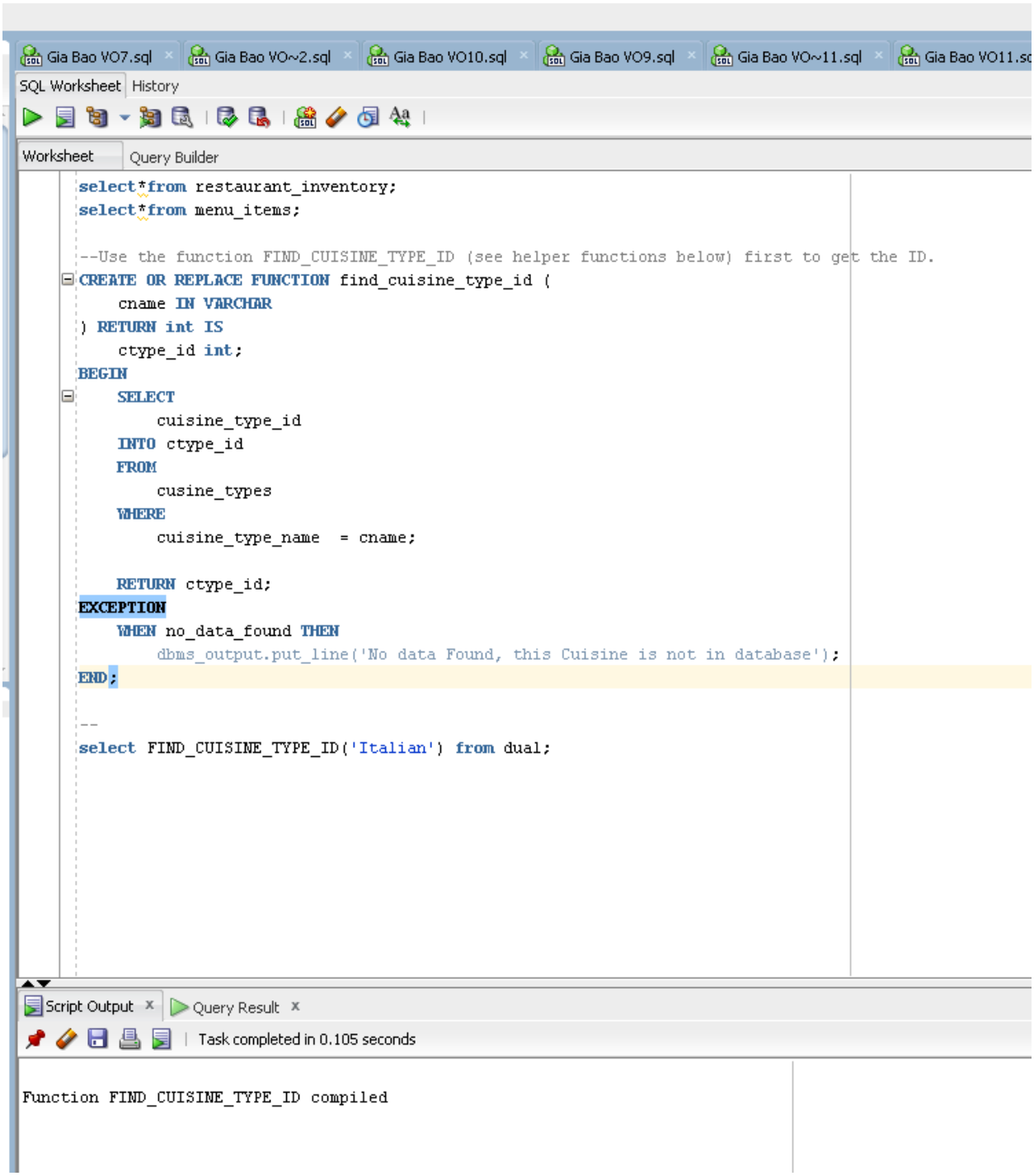
```
Procedure WAITER_ST_TIPS compiled

Waiter ID          Waiter Name                State              Total TIP Earned
---------          -----------                -----              ----------------
1                  Marry Johnson              MD                 $2.80
2                  Tony Parker                MD                 $2.40


PL/SQL procedure successfully completed.
```

Member 3: Gia Bao Vo

Responsible for the Menu Items and Restaurant Inventory tables. Must create these tables.

9. Create menu item: Given a cuisine type id, create a menu item (name and price) for that cuisine type. Use the function FIND_CUISINE_TYPE_ID (see helper functions below) first to get the ID.




Gia Bao VO7.sql
Gia Bao VO~2.sql
Gia Bao VO10.sql
Gia Bao VO9.sql
Gia Bao VO~11.sql
Gia Bao VO11.sc
SQL Worksheet
History
Worksheet
Query Builder
select*from restaurant_inventory;
select*from menu_items;
--Use the function FIND_CUISINE_TYPE_ID (see helper functions below) first to get the ID.
CREATE OR REPLACE FUNCTION find_cuisine_type_id (
cname IN VARCHAR
) RETURN int IS
ctype_id int;
BEGIN
SELECT
cuisine_type_id
INTO ctype_id
FROM
cusine_types
WHERE
cuisine_type_name = cname;
RETURN ctype_id;
EXCEPTION
WHEN no_data_found THEN
dbms_output.put_line('No data Found, this Cuisine is not in database');
END;
--
select FIND_CUISINE_TYPE_ID('Italian') from dual;
Script Output
Query Result
Task completed in 0.105 seconds
Function FIND_CUISINE_TYPE_ID compiled

```
--
select FIND_CUISINE_TYPE_ID('Italian') from dual;
```

Script Output | Query Result

SQL | All Rows Fetched: 1 in 0.183 seconds

	FIND_CUISINE_TYPE_ID('ITALIAN')
1	1

10. Add menu item to Restaurant Inventory: Given all pertinent information, add a menu item with a given quantity to a given restaurant in the Restaurant Inventory table. You will need to call helper functions to find IDs (see helper functions below).

```
--select find_mitem_id('burger') from dual;
```

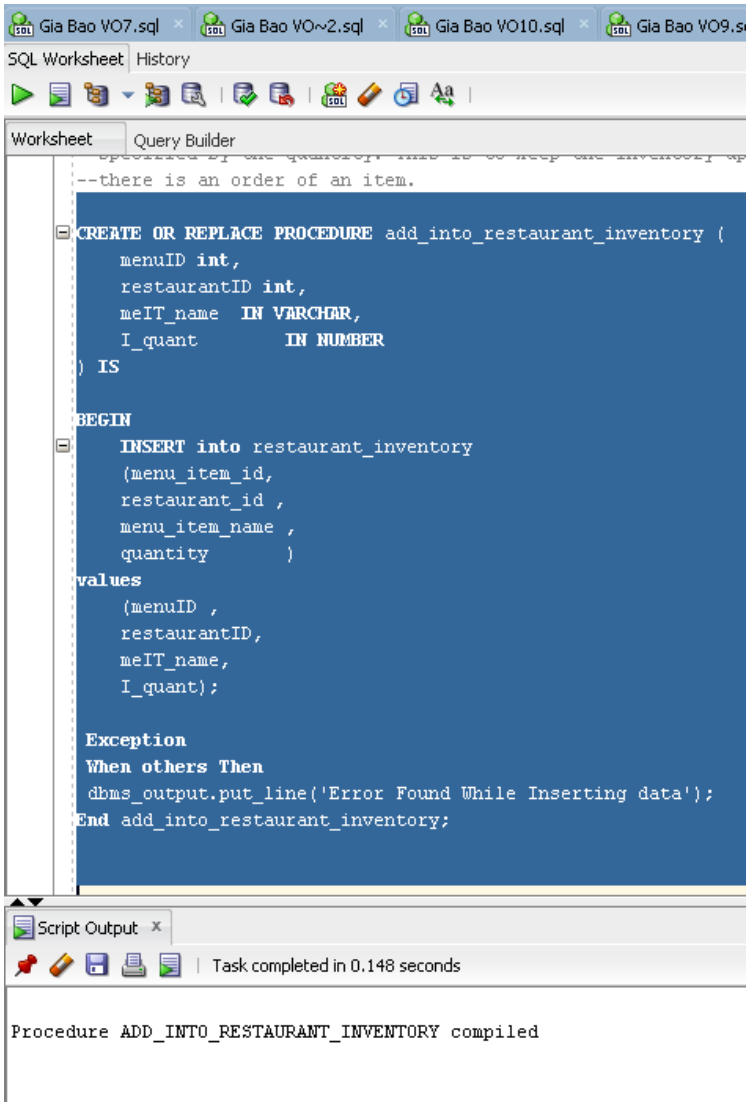
Script Output

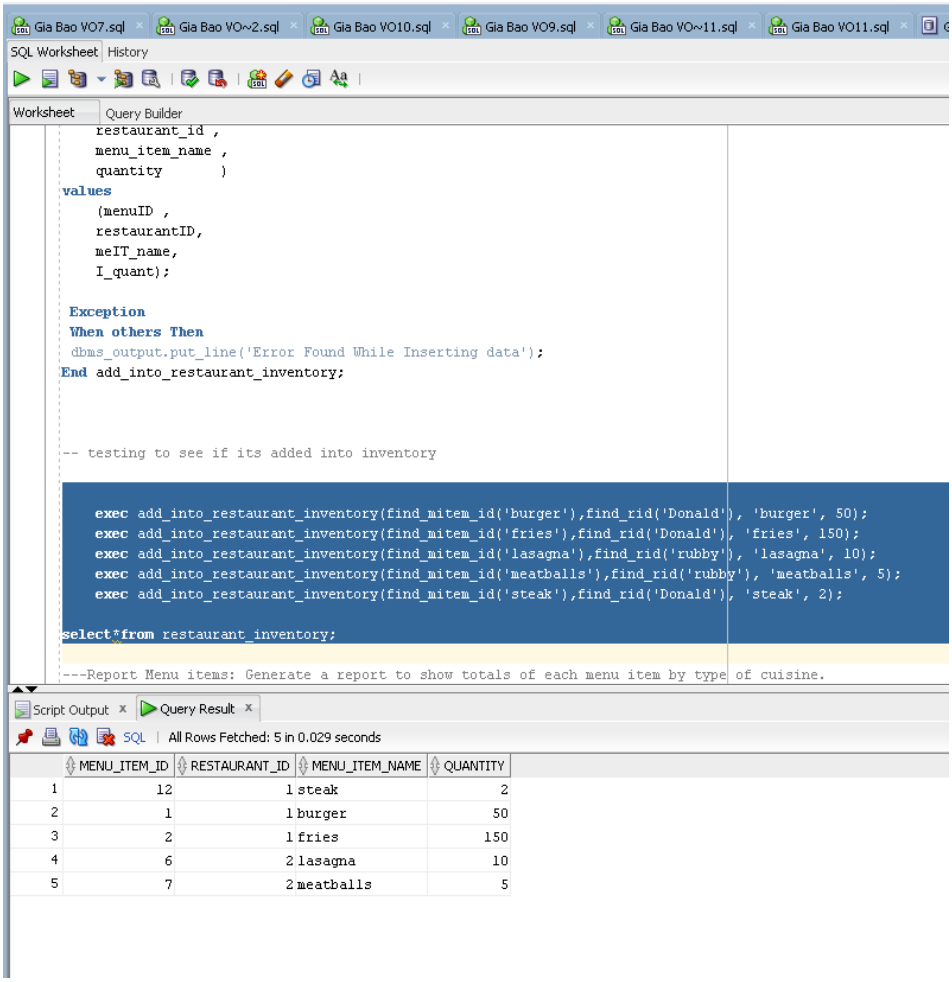
Task completed in 0.103 seconds

```
Function FIND_RID compiled


Function FIND_MITEM_ID compiled
```

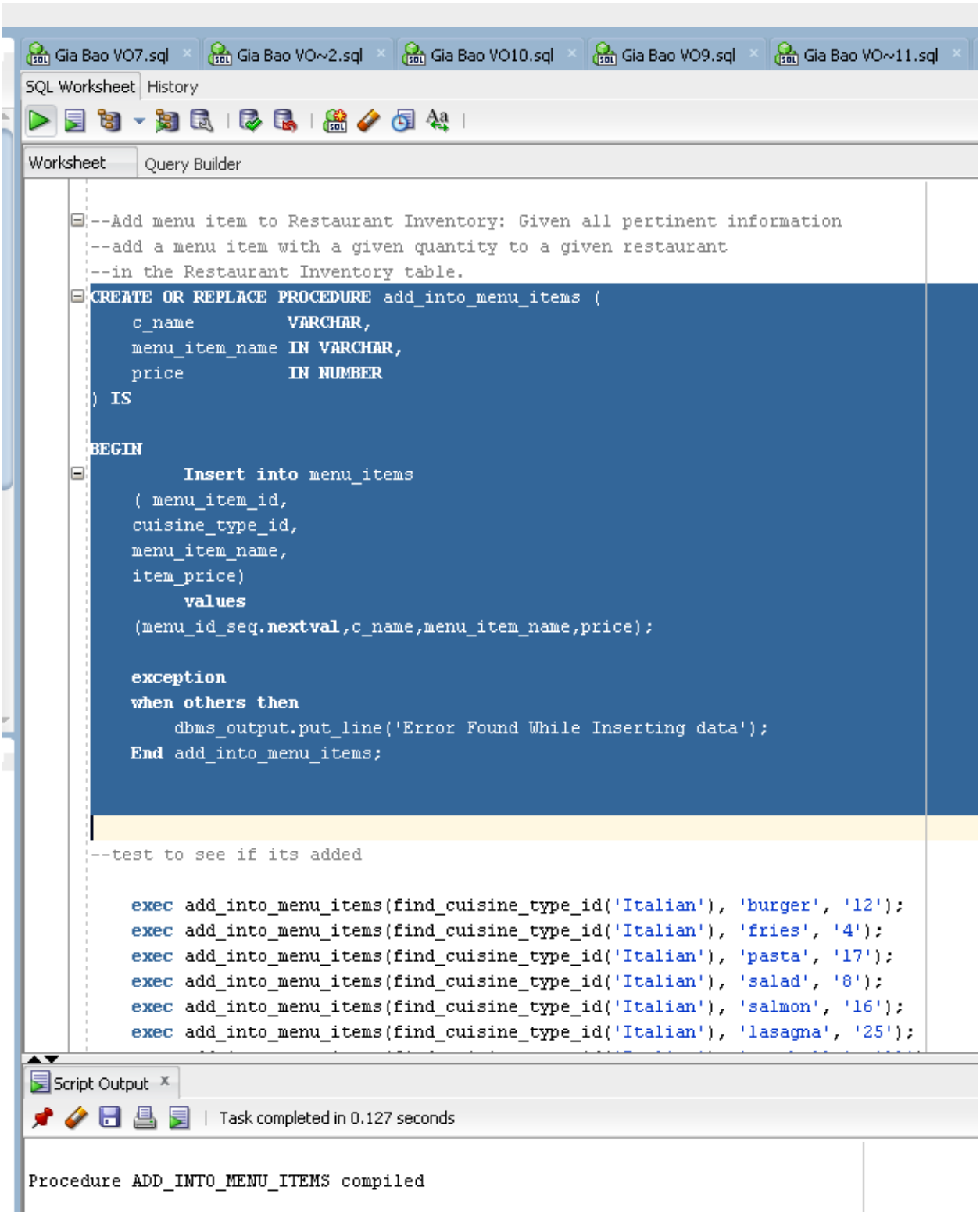
Compiler - Log

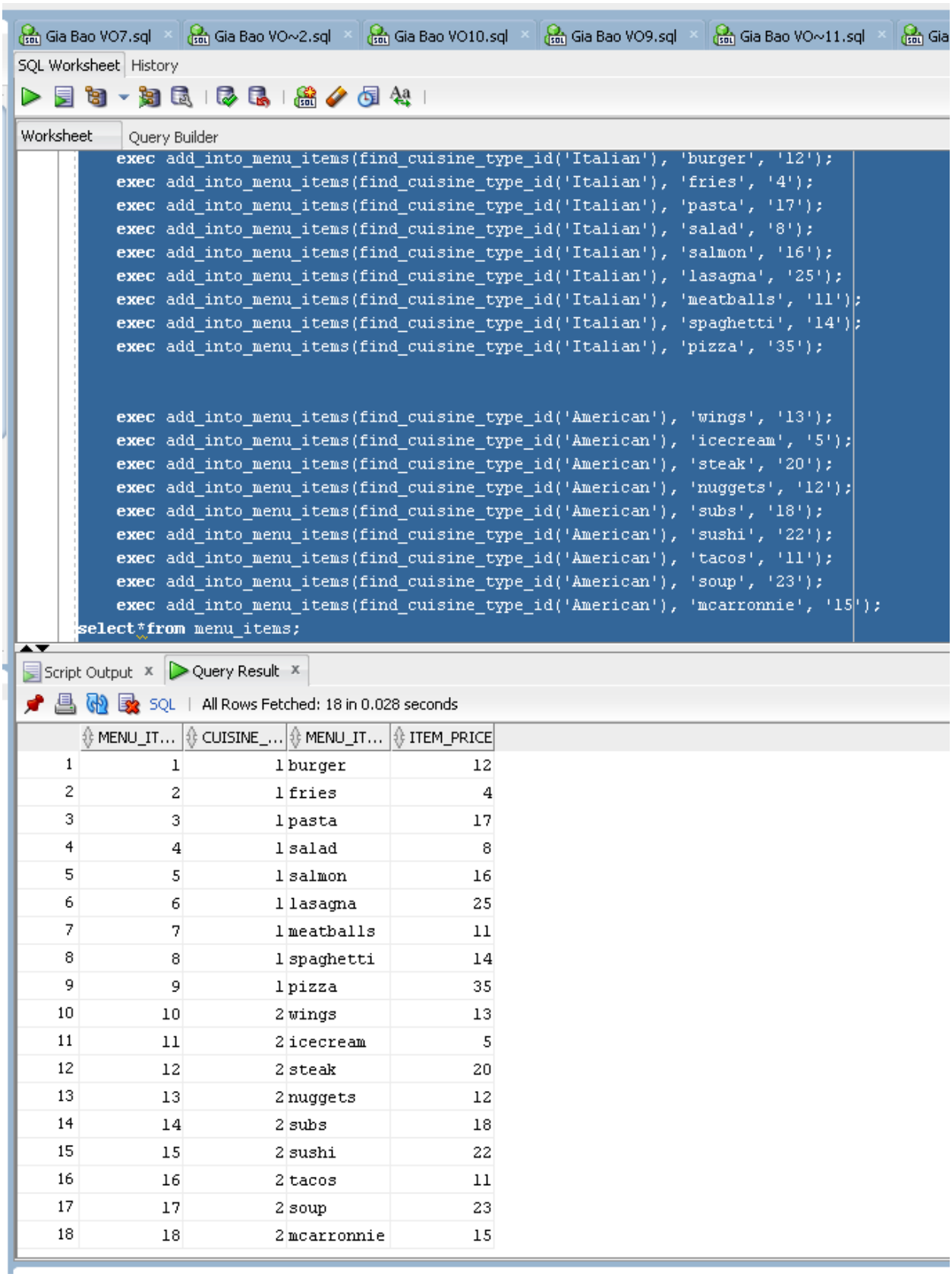
Project: C:\Users\baovo\AppData\Roaming\SQL Developer\system22.2.0.173.2018\o.sqldeveloper\projects\IdeConnections#Gia+Bao+VO.jpr


Gia Bao VO7.sql
Gia Bao VO~2.sql
Gia Bao VO10.sql
Gia Bao VO9.s
SQL Worksheet
History
Worksheet
Query Builder
--there is an order of an item.
CREATE OR REPLACE PROCEDURE add_into_restaurant_inventory (
menuID int,
restaurantID int,
meIT_name IN VARCHAR,
I_quant IN NUMBER
) IS
BEGIN
INSERT into restaurant_inventory
(menu_item_id,
restaurant_id ,
menu_item_name ,
quantity)
values
(menuID ,
restaurantID,
meIT_name,
I_quant);
Exception
When others Then
dbms_output.put_line('Error Found While Inserting data');
End add_into_restaurant_inventory;
Script Output
Task completed in 0.148 seconds
Procedure ADD_INTO_RESTAURANT_INVENTORY compiled



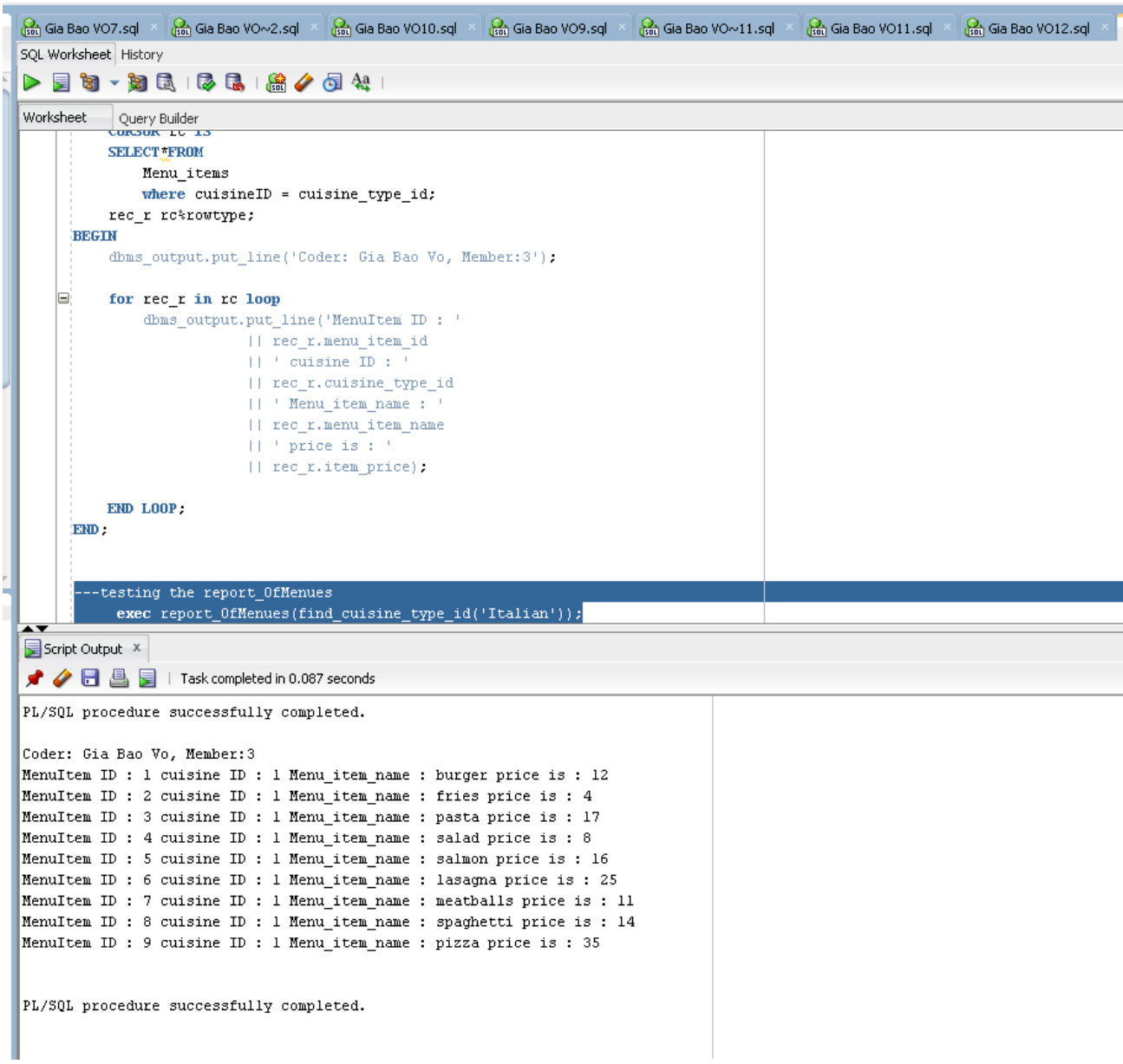
11. Update menu item inventory: Given a restaurant id, a menu item id, along with a given quantity, reduce the inventory of that menu item by the amount specified by the quantity. This is to keep the inventory updated every time there is an order of an item.

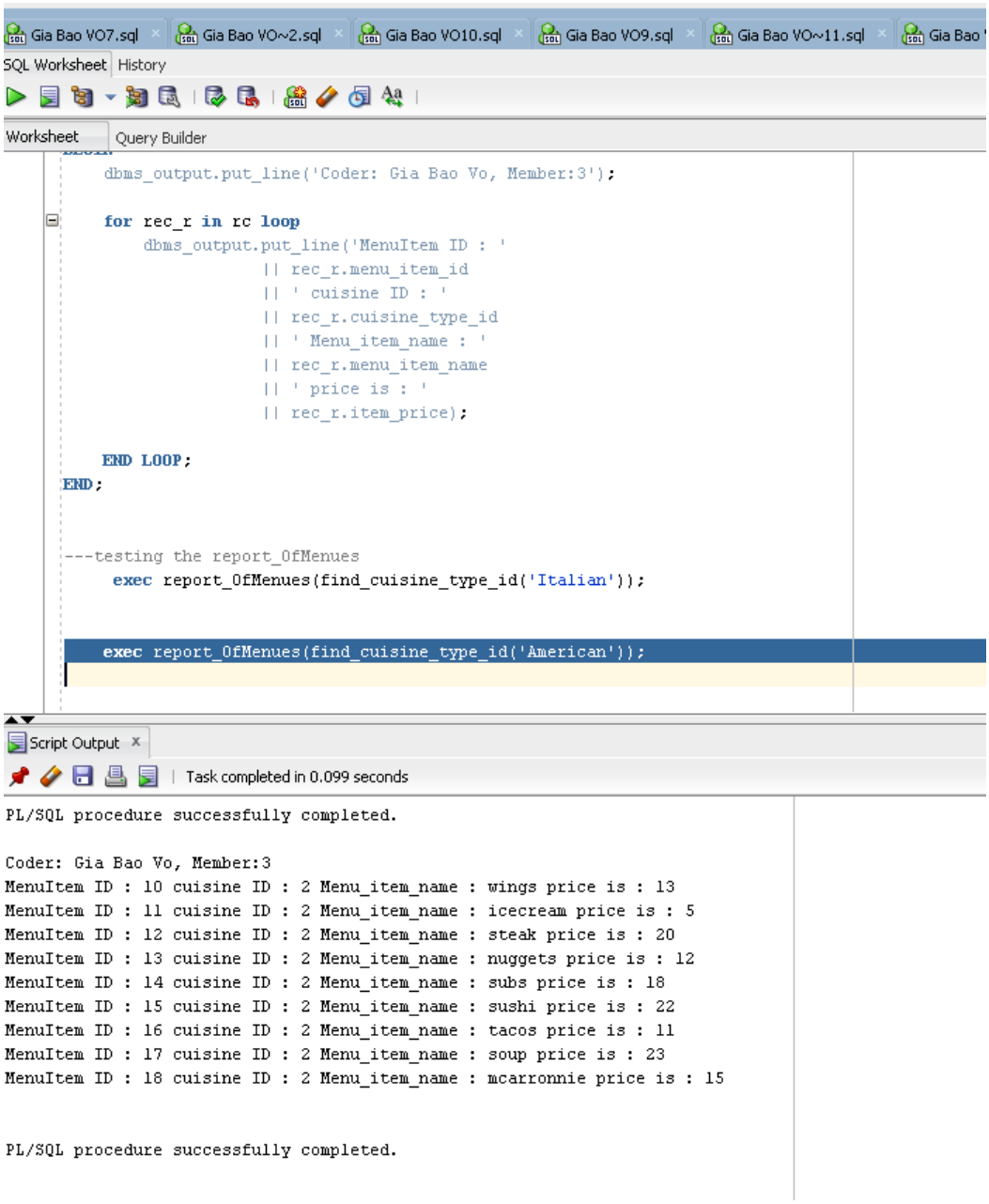

Gia Bao VO7.sql
Gia Bao VO~2.sql
Gia Bao VO10.sql
Gia Bao VO9.sql
Gia Bao VO~11.sql
SQL Worksheet
History
Worksheet
Query Builder
--Add menu item to Restaurant Inventory: Given all pertinent information
--add a menu item with a given quantity to a given restaurant
--in the Restaurant Inventory table.
CREATE OR REPLACE PROCEDURE add_into_menu_items (
c_name VARCHAR,
menu_item_name IN VARCHAR,
price IN NUMBER
) IS
BEGIN
Insert into menu_items
(menu_item_id,
cuisine_type_id,
menu_item_name,
item_price)
values
(menu_id_seq.nextval,c_name,menu_item_name,price);
exception
when others then
dbms_output.put_line('Error Found While Inserting data');
End add_into_menu_items;
--test to see if its added
exec add_into_menu_items(find_cuisine_type_id('Italian'), 'burger', '12');
exec add_into_menu_items(find_cuisine_type_id('Italian'), 'fries', '4');
exec add_into_menu_items(find_cuisine_type_id('Italian'), 'pasta', '17');
exec add_into_menu_items(find_cuisine_type_id('Italian'), 'salad', '8');
exec add_into_menu_items(find_cuisine_type_id('Italian'), 'salmon', '16');
exec add_into_menu_items(find_cuisine_type_id('Italian'), 'lasagna', '25');
Script Output
Task completed in 0.127 seconds
Procedure ADD_INTO_MENU_ITEMS compiled



	MENU_IT...	CUISINE_...	MENU_IT...	ITEM_PRICE
1	1	1	burger	12
2	2	1	fries	4
3	3	1	pasta	17
4	4	1	salad	8
5	5	1	salmon	16
6	6	1	lasagna	25
7	7	1	meatballs	11
8	8	1	spaghetti	14
9	9	1	pizza	35
10	10	2	wings	13
11	11	2	icecream	5
12	12	2	steak	20
13	13	2	nuggets	12
14	14	2	subs	18
15	15	2	sushi	22
16	16	2	tacos	11
17	17	2	soup	23
18	18	2	mcarronnie	15

12. Report Menu items: Generate a report to show totals of each menu item by type of cuisine.

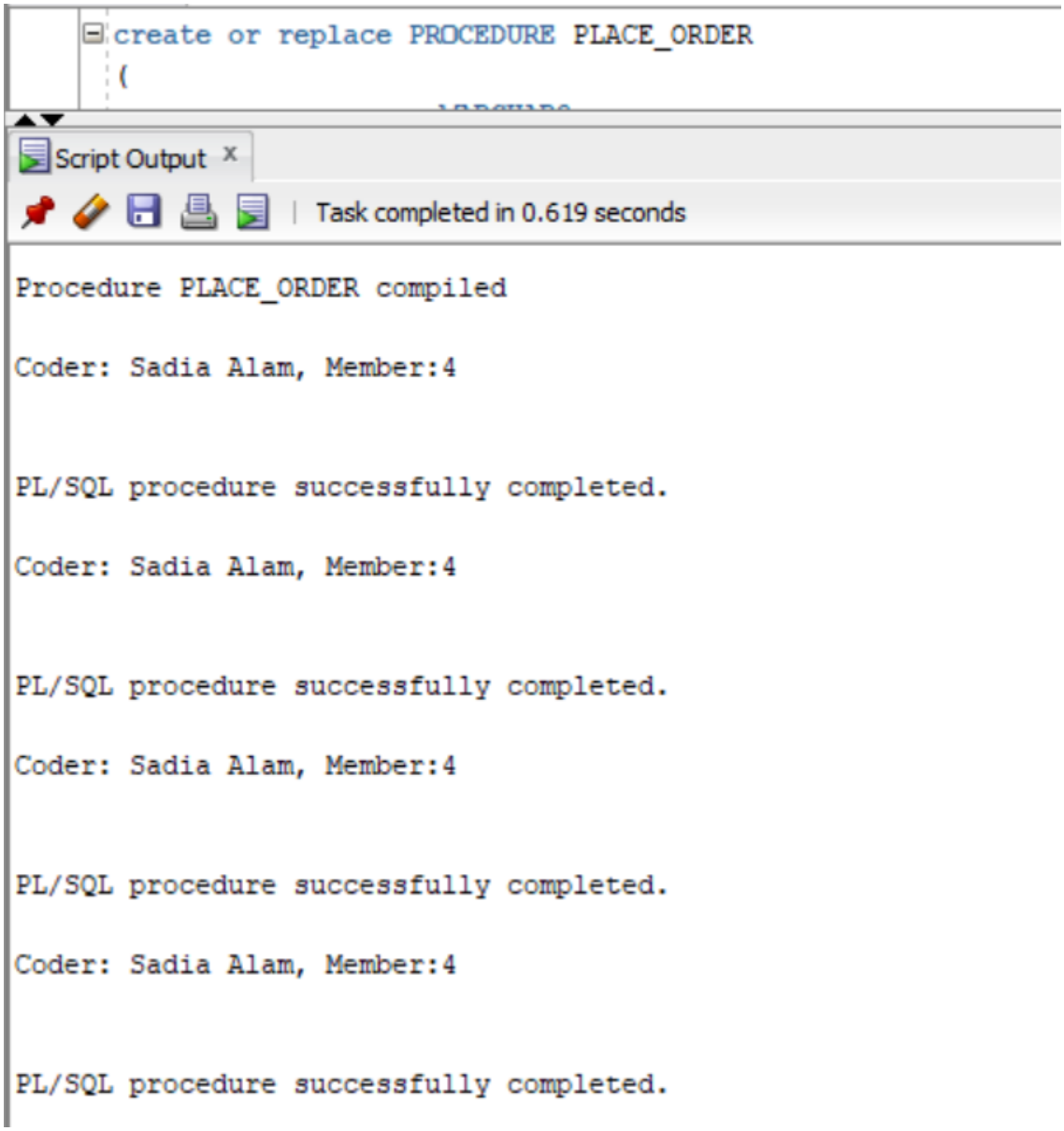




Member 4: Sadia Alam

Responsible for the Orders table. Must create this table.

13. Place an order: Given all required information, add an order in the Orders table. Use the FIND_x_ID helper functions (where x is the name of a table - see helper functions below) first to retrieve the IDs that are needed.


create or replace PROCEDURE PLACE_ORDER
(
Script Output
Task completed in 0.619 seconds
Procedure PLACE_ORDER compiled
Coder: Sadia Alam, Member:4
PL/SQL procedure successfully completed.
Coder: Sadia Alam, Member:4
PL/SQL procedure successfully completed.
Coder: Sadia Alam, Member:4
PL/SQL procedure successfully completed.
Coder: Sadia Alam, Member:4
PL/SQL procedure successfully completed.

```
SELECT * FROM orders;
```

Query Result

SQL | All Rows Fetched: 12 in 0.041 seconds

	ORDER_ID	RESTAURANT_ID	CUSTOMER_ID	MENU_ITEM_ID	WAITER_ID	ORDER_DATE	AMOUNT_PAID	TIP
1	1	7	12	1	7	01-NOV-22	12	2.4
2	2	7	12	2	7	01-NOV-22	4	0.8
3	3	7	13	1	7	06-NOV-22	12	2.4
4	4	8	12	22	8	10-NOV-22	5.99	1.2
5	5	8	13	22	8	13-NOV-22	5.99	1.2
6	6	1	11	19	6	20-NOV-22	6.99	1.4
7	7	1	11	20	6	20-NOV-22	1	0.2
8	8	1	11	21	6	20-NOV-22	1	0.2
9	9	8	6	22	8	15-NOV-22	5.99	1.2
10	10	8	7	22	8	16-NOV-22	5.99	1.2
11	11	7	8	1	7	19-NOV-22	12	2.4
12	12	7	10	1	7	21-NOV-22	12	2.4

14. List all orders at a given restaurant on a given date.

```
-- create procedure to list orders for a given restaurant on a given date
CREATE OR REPLACE PROCEDURE LIST_ORDERS
(
```

Script Output

Task completed in 0.205 seconds

```
Procedure LIST_ORDERS compiled

Coder: Sadia Alam, Member:4
Order ID: 1
Restaurant ID: 7
Customer ID: 12
Menu Item ID: 1
Waiter ID: 7
Order Date: 01-NOV-22
Amount Paid: 12
Tip: 2.4

Order ID: 2
Restaurant ID: 7
Customer ID: 12
Menu Item ID: 2
Waiter ID: 7
Order Date: 01-NOV-22
Amount Paid: 4
Tip: .8
```

15. List the most popular menu item ordered for each cuisine type

```
-- create procedure that displays the most popular menu of a given cuisine type
create or replace PROCEDURE MOST_POPULAR_MENU
(
        cuisine_name_param VARCHAR2
)
IS
```

Script Output

Task completed in 0.168 seconds

```
Procedure MOST_POPULAR_MENU compiled

Coder: Sadia Alam, Member:4
Cusine Name: Indian
Most Popular Menu: Tandoori Chicken



PL/SQL procedure successfully completed.
```

16. Report: Generate a report showing the top 3 restaurants of each state. The ranking is based on the total of ‘amount paid’ per restaurant per state.

```
-- create procedure to list the top 3 restaurants of a given state
create or replace PROCEDURE TOP_RESTAURANT_REPORT
(
        r_state_param VARCHAR2
)
IS
```

Script Output

Task completed in 0.177 seconds

```
Procedure TOP_RESTAURANT_REPORT compiled

Coder: Sadia Alam, Member:4
Restaurant Name: Chick-fil-A
Restaurant Total Income: 52

Restaurant Name: Kabob Place
Restaurant Total Income: 23.96

Restaurant Name: Subway
Restaurant Total Income: 8.99



PL/SQL procedure successfully completed.
```

Member 5: Shikha Gondalia

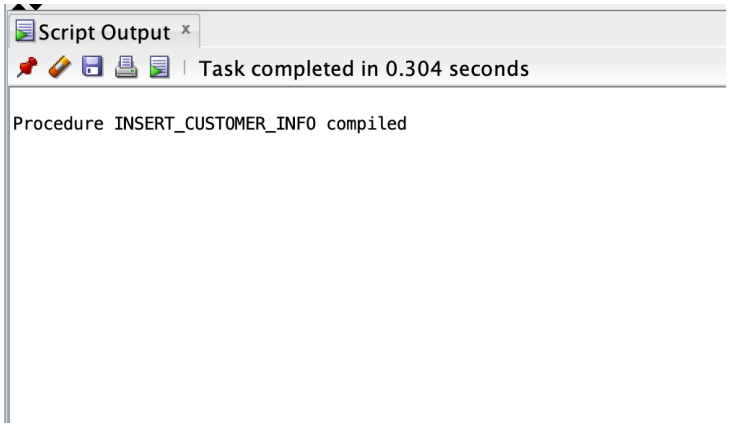
Responsible for the Customers table. Must create this table.

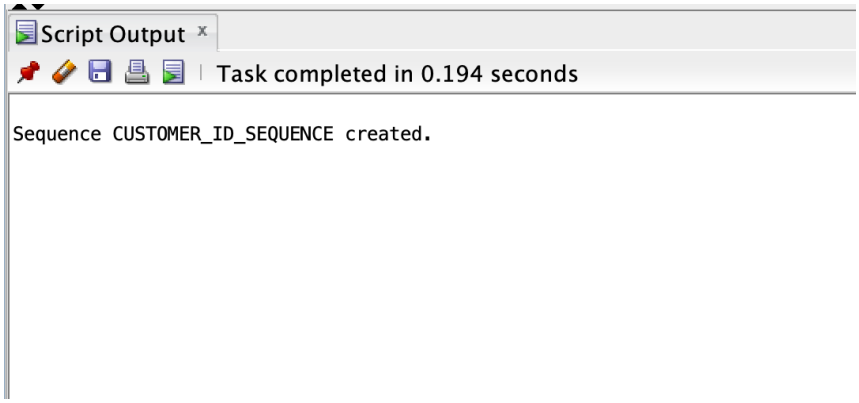
17. Add a customer: Given all necessary information add a customer to the DB

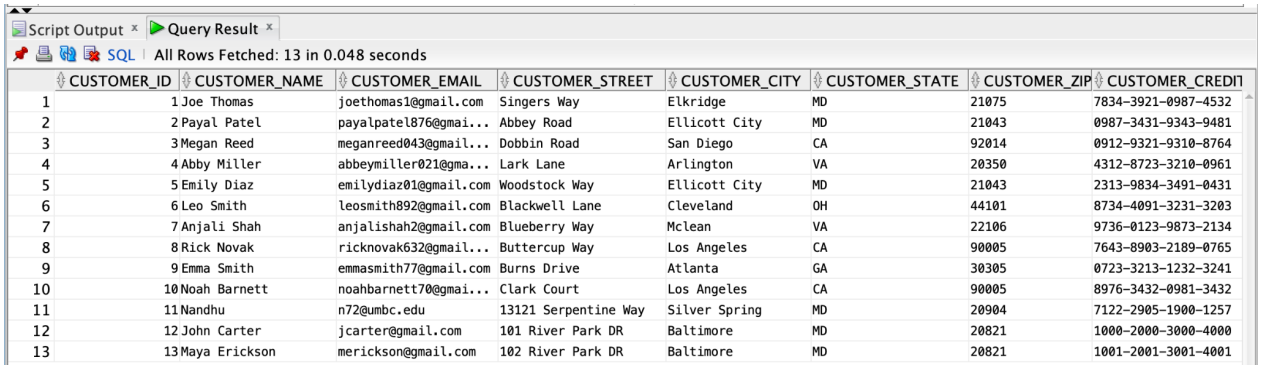
Script Output

Task completed in 0.378 seconds

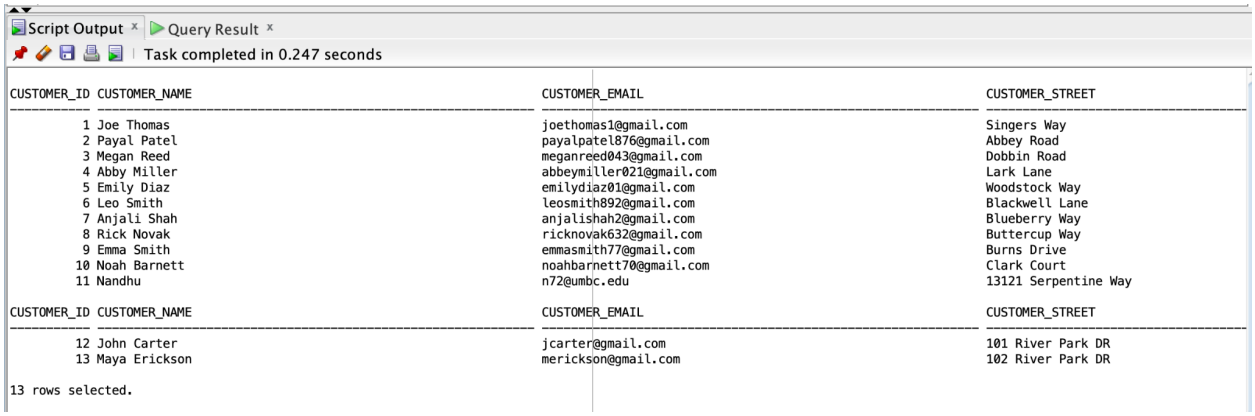
```
Table CUSTOMER created.
```







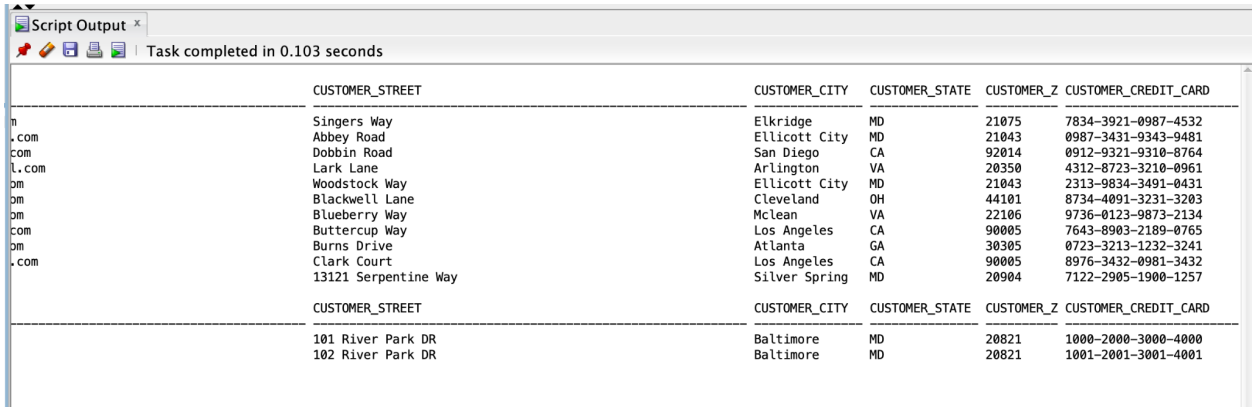
	CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_EMAIL	CUSTOMER_STREET	CUSTOMER_CITY	CUSTOMER_STATE	CUSTOMER_ZIP	CUSTOMER_CREDIT
1	1	Joe Thomas	joethomas1@gmail.com	Singers Way	Elkridge	MD	21075	7834-3921-0987-4532
2	2	Payal Patel	payalpatel876@gmai...	Abbey Road	Ellicott City	MD	21043	0987-3431-9343-9481
3	3	Megan Reed	meganreed043@gmail...	Dobbin Road	San Diego	CA	92014	0912-9321-9310-8764
4	4	Abby Miller	abbeymiller021@gma...	Lark Lane	Arlington	VA	20350	4312-8723-3210-0961
5	5	Emily Diaz	emilydiaz01@gmail.com	Woodstock Way	Ellicott City	MD	21043	2313-9834-3491-0431
6	6	Leo Smith	leosmith892@gmail.com	Blackwell Lane	Cleveland	OH	44101	8734-4091-3231-3203
7	7	Anjali Shah	anjalishah2@gmail.com	Blueberry Way	Mclean	VA	22106	9736-0123-9873-2134
8	8	Rick Novak	ricknovak632@gmail...	Buttercup Way	Los Angeles	CA	90005	7643-8903-2189-0765
9	9	Emma Smith	emmasmith77@gmail.com	Burns Drive	Atlanta	GA	30305	0723-3213-1232-3241
10	10	Noah Barnett	noahbarnett70@gmai...	Clark Court	Los Angeles	CA	90005	8976-3432-0981-3432
11	11	Nandhu	n72@umbc.edu	13121 Serpentine Way	Silver Spring	MD	20904	7122-2905-1900-1257
12	12	John Carter	jcarter@gmail.com	101 River Park DR	Baltimore	MD	20821	1000-2000-3000-4000
13	13	Maya Erickson	merickson@gmail.com	102 River Park DR	Baltimore	MD	20821	1001-2001-3001-4001



CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_EMAIL	CUSTOMER_STREET
1	Joe Thomas	joethomas1@gmail.com	Singers Way
2	Payal Patel	payalpatel876@gmail.com	Abbey Road
3	Megan Reed	meganreed043@gmail.com	Dobbin Road
4	Abby Miller	abbeymiller021@gmail.com	Lark Lane
5	Emily Diaz	emilydiaz01@gmail.com	Woodstock Way
6	Leo Smith	leosmith892@gmail.com	Blackwell Lane
7	Anjali Shah	anjalishah2@gmail.com	Blueberry Way
8	Rick Novak	ricknovak632@gmail.com	Buttercup Way
9	Emma Smith	emmasmith77@gmail.com	Burns Drive
10	Noah Barnett	noahbarnett70@gmail.com	Clark Court
11	Nandhu	n72@umbc.edu	13121 Serpentine Way

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_EMAIL	CUSTOMER_STREET
12	John Carter	jcarter@gmail.com	101 River Park DR
13	Maya Erickson	merickson@gmail.com	102 River Park DR

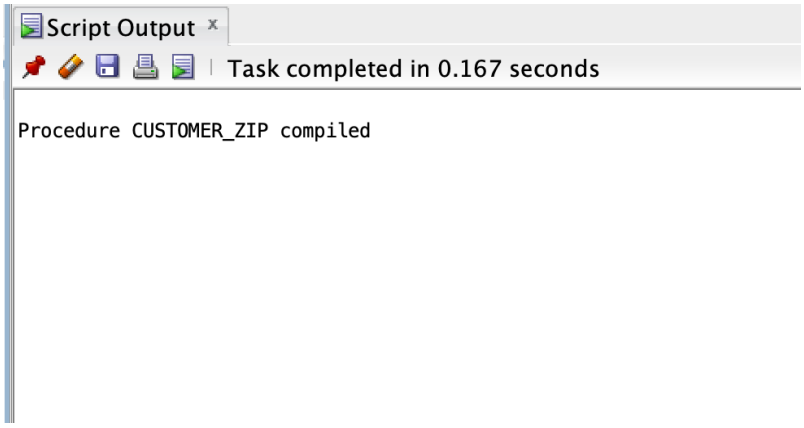
13 rows selected.

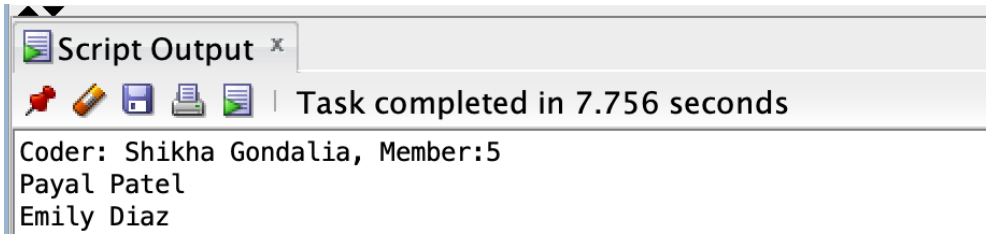


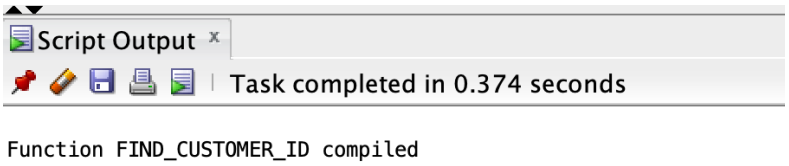
	CUSTOMER_STREET	CUSTOMER_CITY	CUSTOMER_STATE	CUSTOMER_Z	CUSTOMER_CREDIT_CARD
m	Singers Way	Elkridge	MD	21075	7834-3921-0987-4532
.com	Abbey Road	Ellicott City	MD	21043	0987-3431-9343-9481
com	Dobbin Road	San Diego	CA	92014	0912-9321-9310-8764
l.com	Lark Lane	Arlington	VA	20350	4312-8723-3210-0961
om	Woodstock Way	Ellicott City	MD	21043	2313-9834-3491-0431
om	Blackwell Lane	Cleveland	OH	44101	8734-4091-3231-3203
om	Blueberry Way	Mclean	VA	22106	9736-0123-9873-2134
com	Buttercup Way	Los Angeles	CA	90005	7643-8903-2189-0765
om	Burns Drive	Atlanta	GA	30305	0723-3213-1232-3241
.com	Clark Court	Los Angeles	CA	90005	8976-3432-0981-3432
	13121 Serpentine Way	Silver Spring	MD	20904	7122-2905-1900-1257

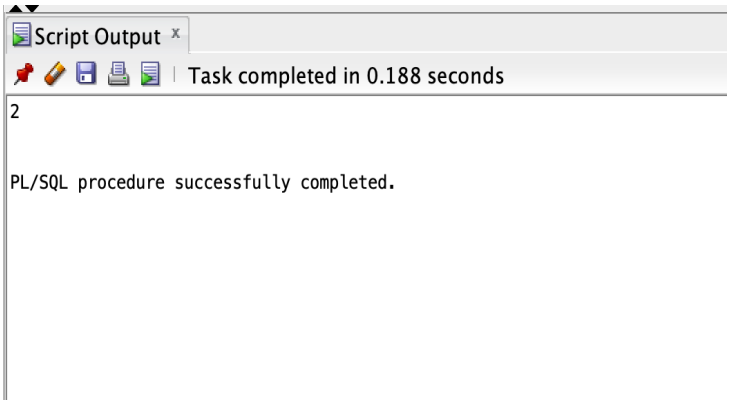
	CUSTOMER_STREET	CUSTOMER_CITY	CUSTOMER_STATE	CUSTOMER_Z	CUSTOMER_CREDIT_CARD
	101 River Park DR	Baltimore	MD	20821	1000-2000-3000-4000
	102 River Park DR	Baltimore	MD	20821	1001-2001-3001-4001

18. List names of all customers who live in a given zip code

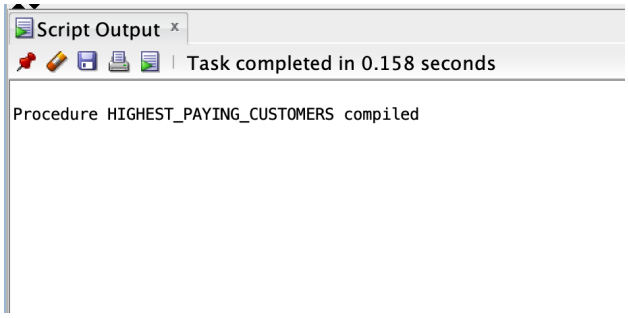


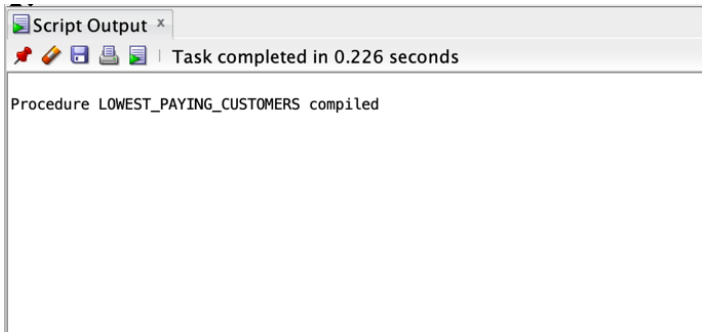


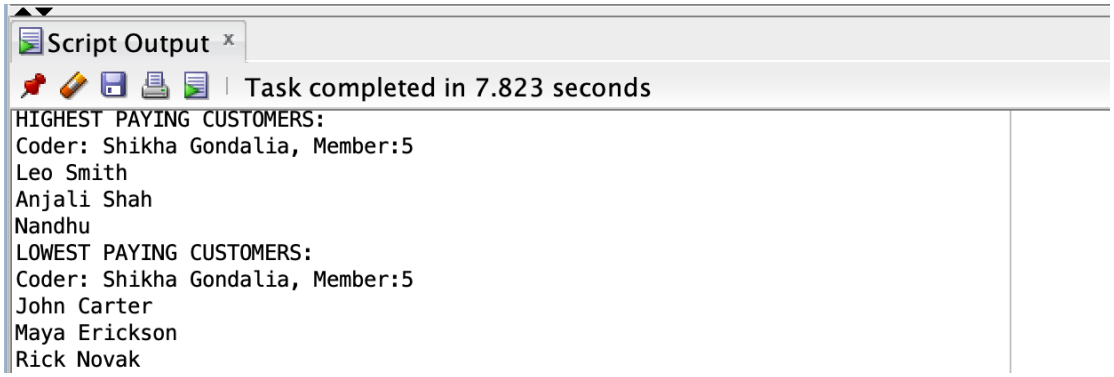




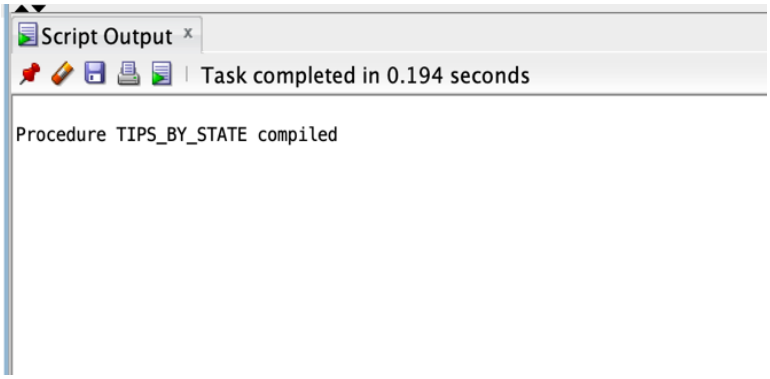
19. Report: Generate a report with the names of customers who spent the most money (top 3) so we can send them discount coupons, and also the names of the most frugal customers (bottom 3).

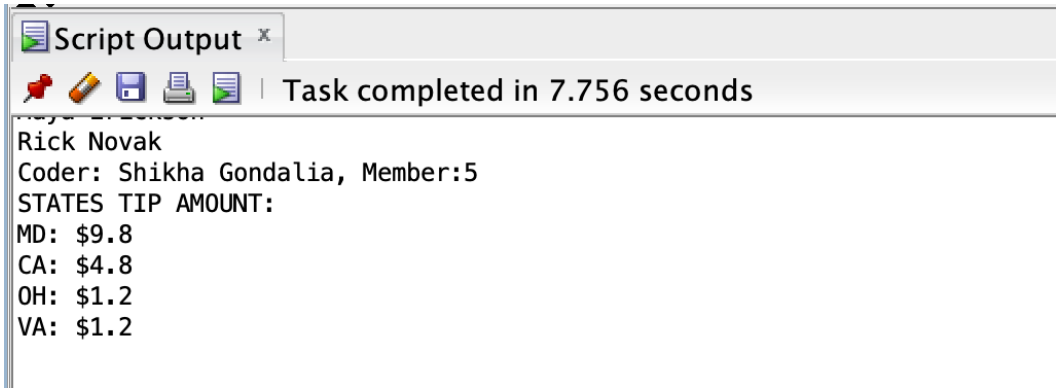






20. Report: States of generous customers. Generate a report that lists the states based on customers who tip generously. Show the total amount of tips by state in descending order of tip amount.




Script Output
Task completed in 7.756 seconds
Rick Novak
Coder: Shikha Gondalia, Member:5
STATES TIP AMOUNT:
MD: $9.8
CA: $4.8
OH: $1.2
VA: $1.2