Assignment 2

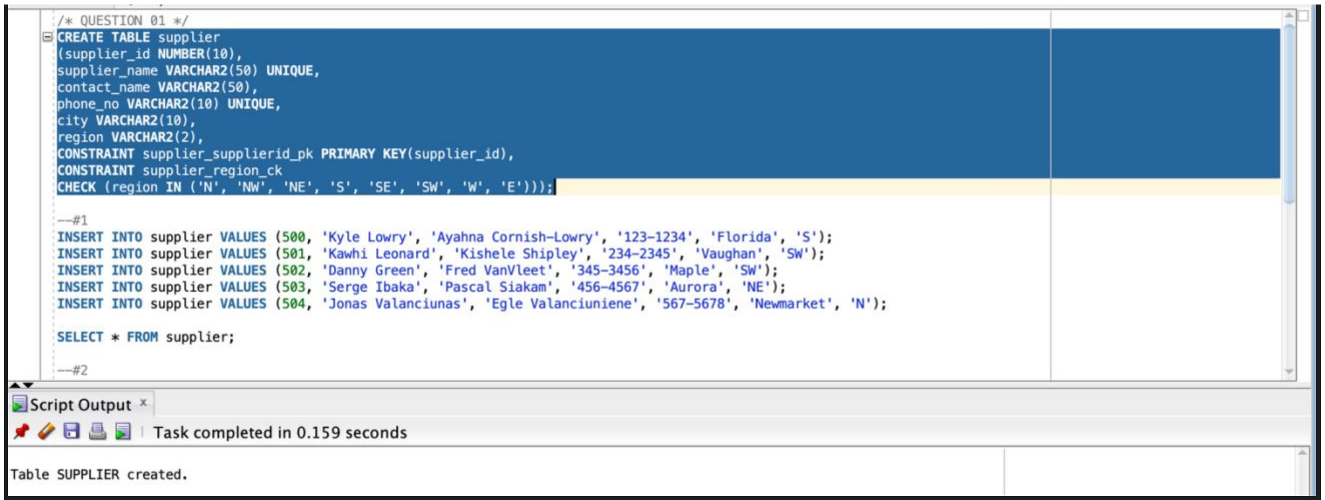
Question 1

CREATE TABLE called supplier with the following fields .
supplier_id numeric(10) - > Primary key with constraint name
supplier_name varchar2(50) - >unique name
contact_name varchar2(50)
phone_no varchar2(10)- >unique name
city varchar2(10)
Region –> should accept only ('N', 'NW', 'NE', 'S', 'SE', 'SW', 'W', 'E')

1. Insert 5 records
2. Display the details of the supplier who comes from Florida and their supplier id 500;
3. Add phone number in the supplier table using DDL command
4. Delete the unused column in the supplier table
5. Write a sql command to delete supplier table.
6. Create a view named supplier_contact . Include supplier_id,supplier_name,phone_no

```
/* QUESTION 01 */
CREATE TABLE supplier
(supplier_id NUMBER(10),
supplier_name VARCHAR2(50) UNIQUE,
contact_name VARCHAR2(50),
phone_no VARCHAR2(10) UNIQUE,
city VARCHAR2(10),
region VARCHAR2(2),
CONSTRAINT supplier_supplierid_pk PRIMARY KEY(supplier_id),
CONSTRAINT supplier_region_ck
CHECK (region IN ('N', 'NW', 'NE', 'S', 'SE', 'SW', 'W', 'E')));
```

Assignment 2



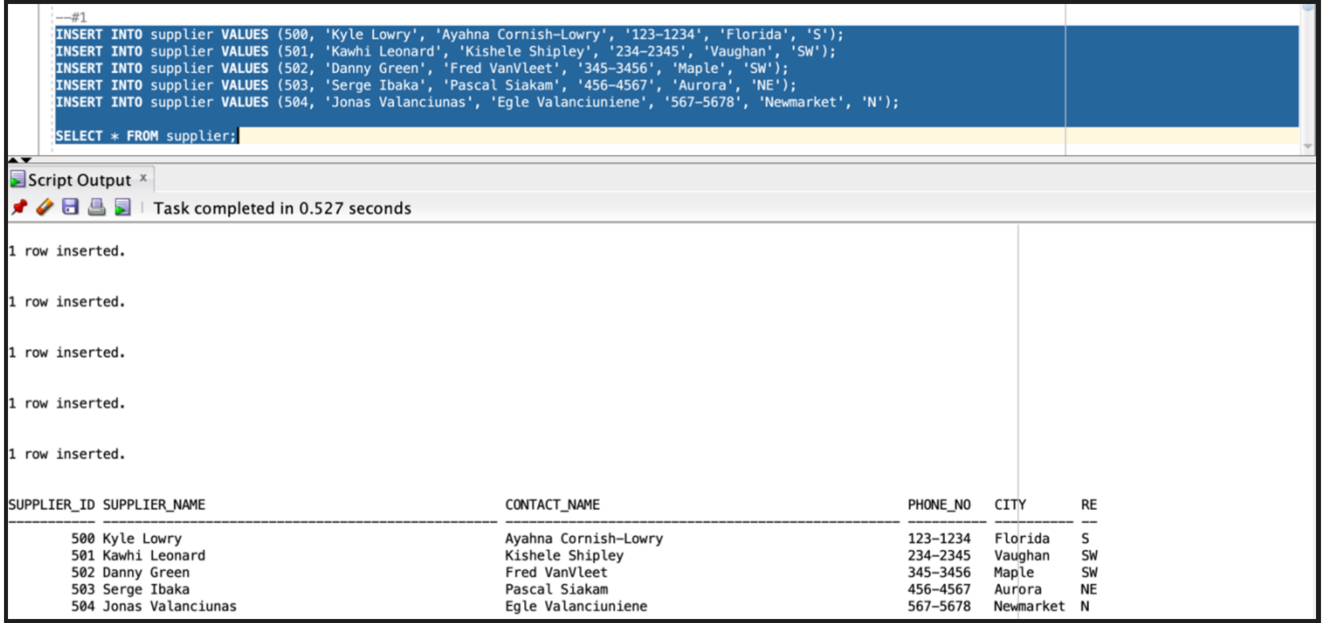
```
/* QUESTION 01 */
CREATE TABLE supplier
(supplier_id NUMBER(10),
supplier_name VARCHAR2(50) UNIQUE,
contact_name VARCHAR2(50),
phone_no VARCHAR2(10) UNIQUE,
city VARCHAR2(10),
region VARCHAR2(2),
CONSTRAINT supplier_supplierid_pk PRIMARY KEY(supplier_id),
CONSTRAINT supplier_region_ck
CHECK (region IN ('N', 'NW', 'NE', 'S', 'SE', 'SW', 'W', 'E')));

--#1
INSERT INTO supplier VALUES (500, 'Kyle Lowry', 'Ayahna Cornish-Lowry', '123-1234', 'Florida', 'S');
INSERT INTO supplier VALUES (501, 'Kawhi Leonard', 'Kishele Shipley', '234-2345', 'Vaughan', 'SW');
INSERT INTO supplier VALUES (502, 'Danny Green', 'Fred VanVleet', '345-3456', 'Maple', 'SW');
INSERT INTO supplier VALUES (503, 'Serge Ibaka', 'Pascal Siakam', '456-4567', 'Aurora', 'NE');
INSERT INTO supplier VALUES (504, 'Jonas Valanciunas', 'Egle Valanciuniene', '567-5678', 'Newmarket', 'N');

SELECT * FROM supplier;

--#2
```

Script Output ×

Task completed in 0.159 seconds

```
Table SUPPLIER created.
```

```
--#1
INSERT INTO supplier VALUES (500, 'Kyle Lowry', 'Ayahna Cornish-Lowry', '123-1234', 'Florida', 'S');
INSERT INTO supplier VALUES (501, 'Kawhi Leonard', 'Kishele Shipley', '234-2345', 'Vaughan', 'SW');
INSERT INTO supplier VALUES (502, 'Danny Green', 'Fred VanVleet', '345-3456', 'Maple', 'SW');
INSERT INTO supplier VALUES (503, 'Serge Ibaka', 'Pascal Siakam', '456-4567', 'Aurora', 'NE');
INSERT INTO supplier VALUES (504, 'Jonas Valanciunas', 'Egle Valanciuniene', '567-5678', 'Newmarket', 'N');

SELECT * FROM supplier;
```



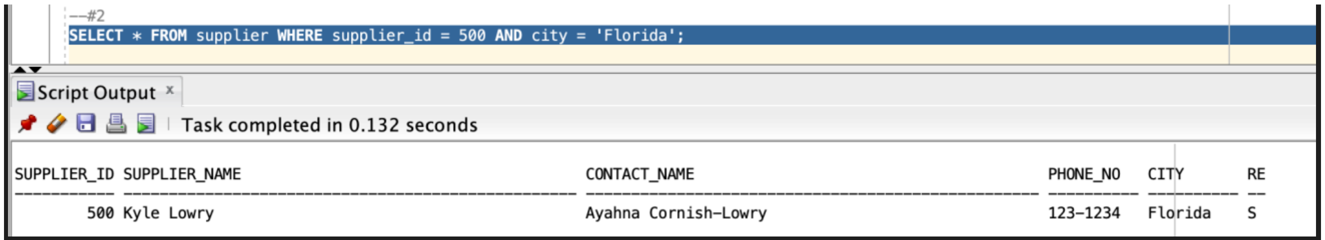
```
--#1
INSERT INTO supplier VALUES (500, 'Kyle Lowry', 'Ayahna Cornish-Lowry', '123-1234', 'Florida', 'S');
INSERT INTO supplier VALUES (501, 'Kawhi Leonard', 'Kishele Shipley', '234-2345', 'Vaughan', 'SW');
INSERT INTO supplier VALUES (502, 'Danny Green', 'Fred VanVleet', '345-3456', 'Maple', 'SW');
INSERT INTO supplier VALUES (503, 'Serge Ibaka', 'Pascal Siakam', '456-4567', 'Aurora', 'NE');
INSERT INTO supplier VALUES (504, 'Jonas Valanciunas', 'Egle Valanciuniene', '567-5678', 'Newmarket', 'N');

SELECT * FROM supplier;
```

Script Output ×

Task completed in 0.527 seconds

```
1 row inserted.


1 row inserted.


1 row inserted.


1 row inserted.


1 row inserted.


SUPPLIER_ID SUPPLIER_NAME                                      CONTACT_NAME                                       PHONE_NO   CITY       RE
----------- -------------------------------------------------- -------------------------------------------------- ---------- ---------- --
        500 Kyle Lowry                                         Ayahna Cornish-Lowry                               123-1234   Florida    S
        501 Kawhi Leonard                                      Kishele Shipley                                    234-2345   Vaughan    SW
        502 Danny Green                                        Fred VanVleet                                      345-3456   Maple      SW
        503 Serge Ibaka                                        Pascal Siakam                                      456-4567   Aurora     NE
        504 Jonas Valanciunas                                  Egle Valanciuniene                                 567-5678   Newmarket  N
```

```
--#2
SELECT * FROM supplier WHERE supplier_id = 500 AND city = 'Florida';
```

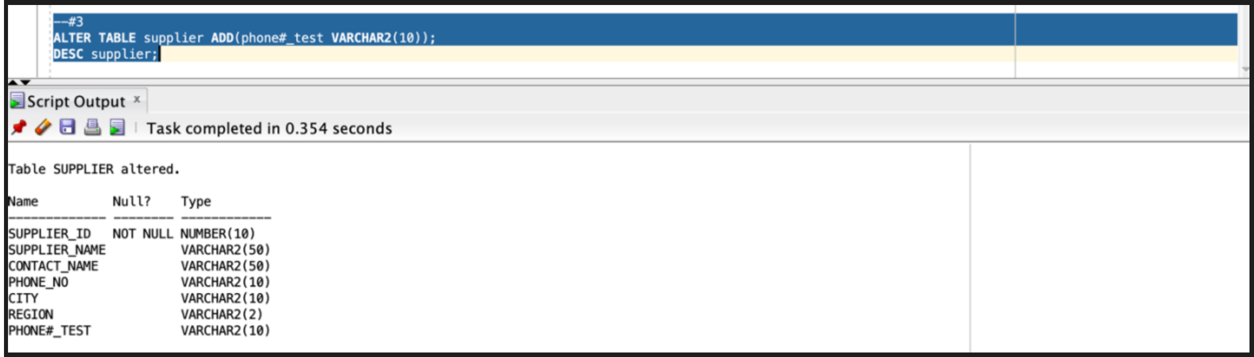


```
--#2
SELECT * FROM supplier WHERE supplier_id = 500 AND city = 'Florida';
```

Script Output × Task completed in 0.132 seconds

```
SUPPLIER_ID SUPPLIER_NAME                                      CONTACT_NAME                                       PHONE_NO   CITY       RE
----------- -------------------------------------------------- -------------------------------------------------- ---------- ---------- --
        500 Kyle Lowry                                         Ayahna Cornish-Lowry                               123-1234   Florida    S
```

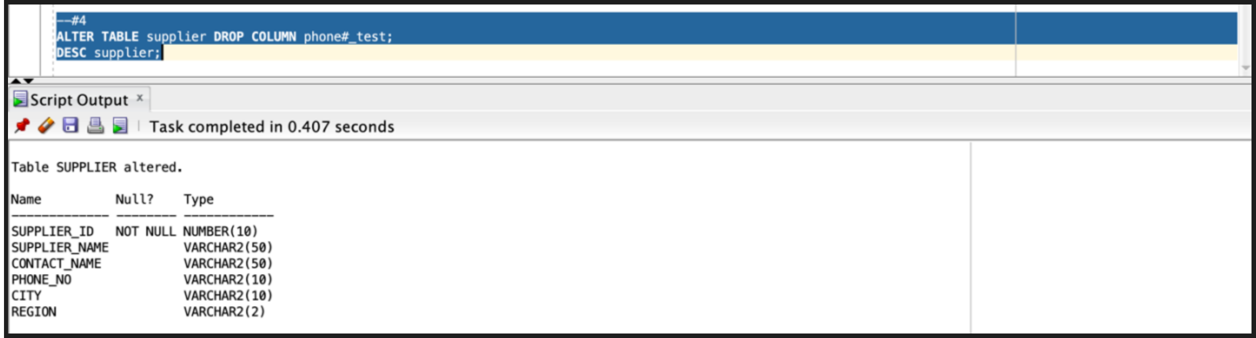
```
--#3
ALTER TABLE supplier ADD(phone#_test VARCHAR2(10));
DESC supplier;
```



Script Output × Task completed in 0.354 seconds

```
Table SUPPLIER altered.

Name          Null?    Type
------------- -------- ------------
SUPPLIER_ID   NOT NULL NUMBER(10)
SUPPLIER_NAME          VARCHAR2(50)
CONTACT_NAME           VARCHAR2(50)
PHONE_NO               VARCHAR2(10)
CITY                   VARCHAR2(10)
REGION                 VARCHAR2(2)
PHONE#_TEST            VARCHAR2(10)
```

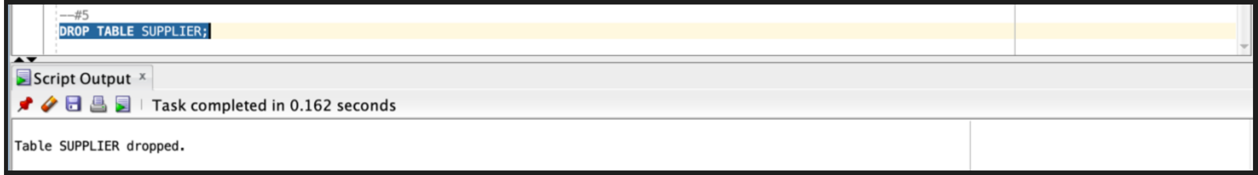
```
--#4
ALTER TABLE supplier DROP COLUMN phone#_test;
DESC supplier;
```



Script Output × Task completed in 0.407 seconds

```
Table SUPPLIER altered.

Name          Null?    Type
------------- -------- ------------
SUPPLIER_ID   NOT NULL NUMBER(10)
SUPPLIER_NAME          VARCHAR2(50)
CONTACT_NAME           VARCHAR2(50)
PHONE_NO               VARCHAR2(10)
CITY                   VARCHAR2(10)
REGION                 VARCHAR2(2)
```

```
--#5
DROP TABLE SUPPLIER;
```



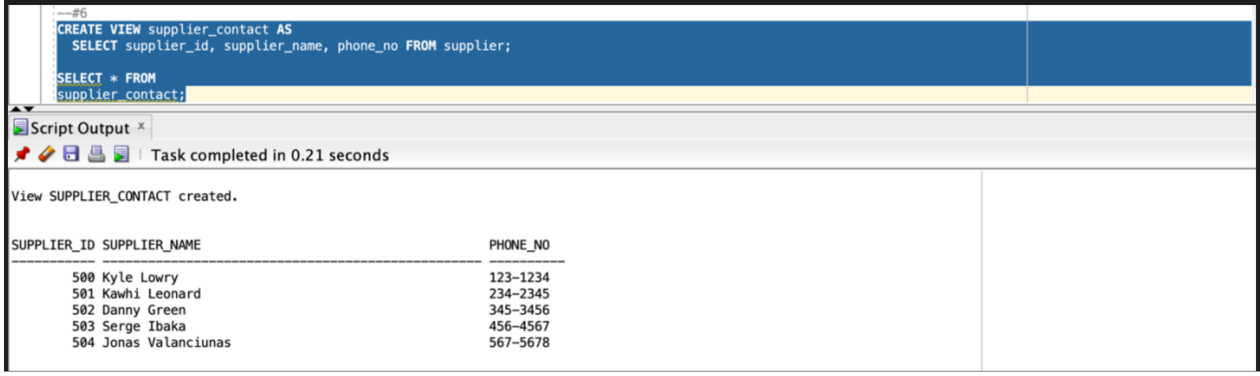
Script Output × Task completed in 0.162 seconds

```
Table SUPPLIER dropped.
```

```
--#6
CREATE VIEW supplier_contact AS
```

Assignment 2

```
SELECT supplier_id, supplier_name, phone_no FROM supplier;


SELECT * FROM

supplier_contact;
```



```
--#6
CREATE VIEW supplier_contact AS
  SELECT supplier_id, supplier_name, phone_no FROM supplier;

SELECT * FROM
supplier_contact;
```

Script Output ×

Task completed in 0.21 seconds

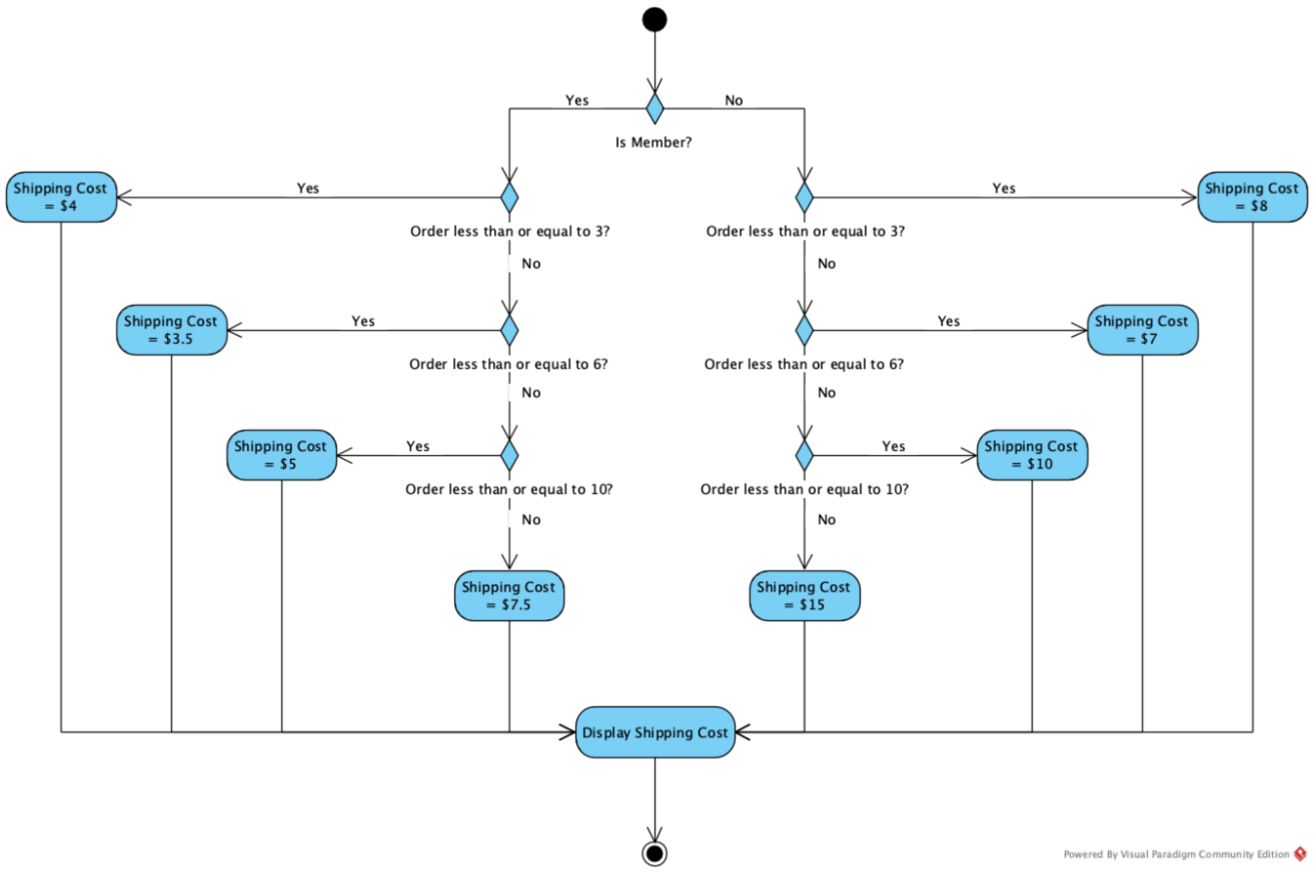
```
View SUPPLIER_CONTACT created.

SUPPLIER_ID SUPPLIER_NAME                                                PHONE_NO
----------- ------------------------------------------------------------ ----------
        500 Kyle Lowry                                                   123-1234
        501 Kawhi Leonard                                                234-2345
        502 Danny Green                                                  345-3456
        503 Serge Ibaka                                                  456-4567
        504 Jonas Valanciunas                                            567-5678
```

Question 2

Ecommerce site determines shipping cost based on the products ordered and membership. The valid rates are displayed in the following table:

QUANTITY	REGULAR SHIPPING COST	MEMBERS SHIPPING COST
Up to 3	$ 8.00	$ 4.00
4-6	$7.00	$ 3.50
7-10	$10.00	$5.00
>10	$15.00	$7.50

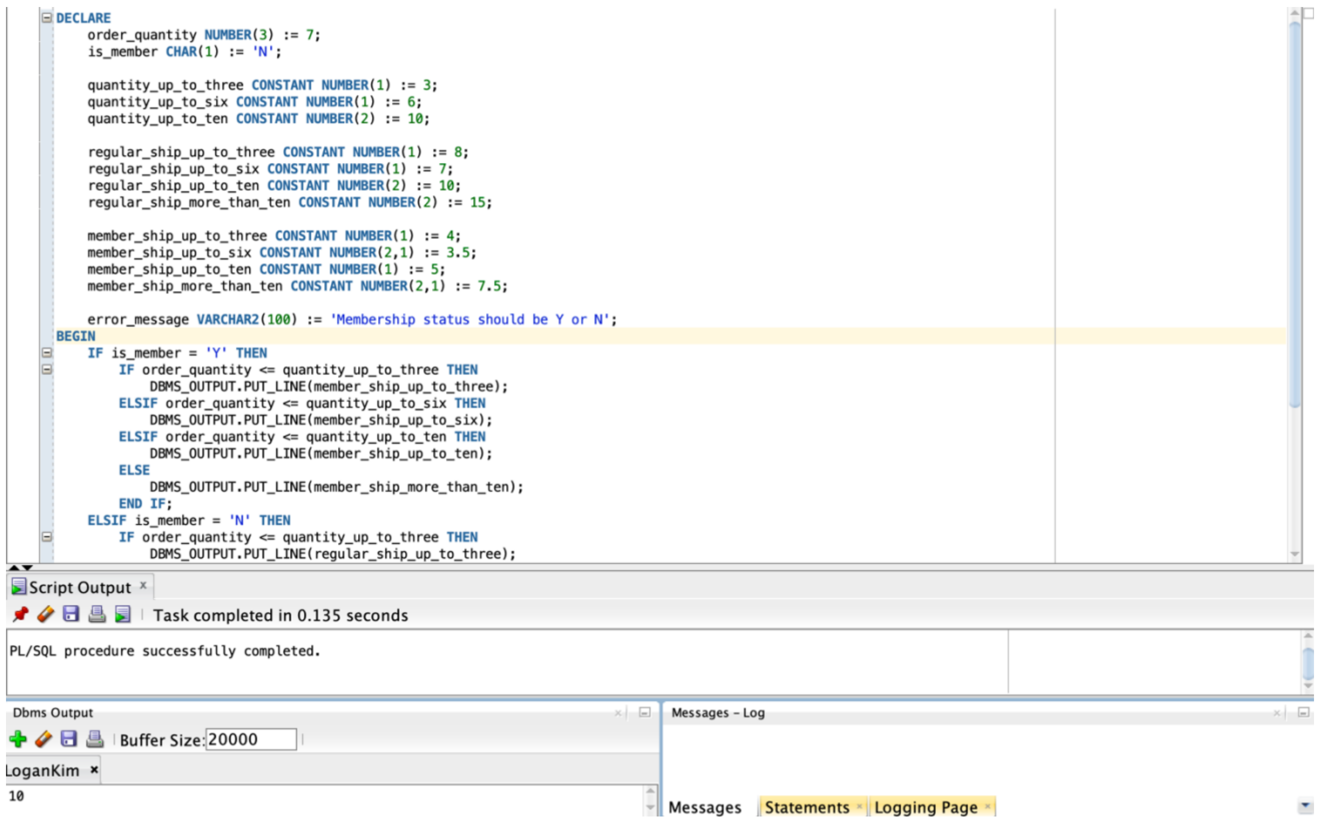
1. Create a **flowchart** to outline the processing steps in order to handle this calculation.



2. Create a pl/sql block to complete the above task. Include variable that holds Y OR N to include membership status and a variable to denote the number of items purchased. Verify with different values

```
DECLARE
    order_quantity NUMBER(3) := 7;
    is_member CHAR(1) := 'N';

    quantity_up_to_three CONSTANT NUMBER(1) := 3;
    quantity_up_to_six CONSTANT NUMBER(1) := 6;
    quantity_up_to_ten CONSTANT NUMBER(2) := 10;

    regular_ship_up_to_three CONSTANT NUMBER(1) := 8;
    regular_ship_up_to_six CONSTANT NUMBER(1) := 7;
    regular_ship_up_to_ten CONSTANT NUMBER(2) := 10;
    regular_ship_more_than_ten CONSTANT NUMBER(2) := 15;

```

```sql
    member_ship_up_to_three CONSTANT NUMBER(1) := 4;
    member_ship_up_to_six CONSTANT NUMBER(2,1) := 3.5;
    member_ship_up_to_ten CONSTANT NUMBER(1) := 5;
    member_ship_more_than_ten CONSTANT NUMBER(2,1) := 7.5;

    error_message VARCHAR2(100) := 'Membership status should be Y or N';
BEGIN
    IF is_member = 'Y' THEN
        IF order_quantity <= quantity_up_to_three THEN
            DBMS_OUTPUT.PUT_LINE(member_ship_up_to_three);
        ELSIF order_quantity <= quantity_up_to_six THEN
            DBMS_OUTPUT.PUT_LINE(member_ship_up_to_six);
        ELSIF order_quantity <= quantity_up_to_ten THEN
            DBMS_OUTPUT.PUT_LINE(member_ship_up_to_ten);
        ELSE
            DBMS_OUTPUT.PUT_LINE(member_ship_more_than_ten);
        END IF;
    ELSIF is_member = 'N' THEN
        IF order_quantity <= quantity_up_to_three THEN
            DBMS_OUTPUT.PUT_LINE(regular_ship_up_to_three);
        ELSIF order_quantity <= quantity_up_to_six THEN
            DBMS_OUTPUT.PUT_LINE(regular_ship_up_to_six);
        ELSIF order_quantity <= quantity_up_to_ten THEN
            DBMS_OUTPUT.PUT_LINE(regular_ship_up_to_ten);
        ELSE
            DBMS_OUTPUT.PUT_LINE(regular_ship_more_than_ten);
        END IF;
    ELSE
        DBMS_OUTPUT.PUT_LINE(error_message);
    END IF;
END;
/
```



```
DECLARE
    order_quantity NUMBER(3) := 7;
    is_member CHAR(1) := 'N';

    quantity_up_to_three CONSTANT NUMBER(1) := 3;
    quantity_up_to_six CONSTANT NUMBER(1) := 6;
    quantity_up_to_ten CONSTANT NUMBER(2) := 10;

    regular_ship_up_to_three CONSTANT NUMBER(1) := 8;
    regular_ship_up_to_six CONSTANT NUMBER(1) := 7;
    regular_ship_up_to_ten CONSTANT NUMBER(2) := 10;
    regular_ship_more_than_ten CONSTANT NUMBER(2) := 15;

    member_ship_up_to_three CONSTANT NUMBER(1) := 4;
    member_ship_up_to_six CONSTANT NUMBER(2,1) := 3.5;
    member_ship_up_to_ten CONSTANT NUMBER(1) := 5;
    member_ship_more_than_ten CONSTANT NUMBER(2,1) := 7.5;

    error_message VARCHAR2(100) := 'Membership status should be Y or N';
BEGIN
    IF is_member = 'Y' THEN
        IF order_quantity <= quantity_up_to_three THEN
            DBMS_OUTPUT.PUT_LINE(member_ship_up_to_three);
        ELSIF order_quantity <= quantity_up_to_six THEN
            DBMS_OUTPUT.PUT_LINE(member_ship_up_to_six);
        ELSIF order_quantity <= quantity_up_to_ten THEN
            DBMS_OUTPUT.PUT_LINE(member_ship_up_to_ten);
        ELSE
            DBMS_OUTPUT.PUT_LINE(member_ship_more_than_ten);
        END IF;
    ELSIF is_member = 'N' THEN
        IF order_quantity <= quantity_up_to_three THEN
            DBMS_OUTPUT.PUT_LINE(regular_ship_up_to_three);
```

```
Task completed in 0.135 seconds

PL/SQL procedure successfully completed.
```

```
10
```

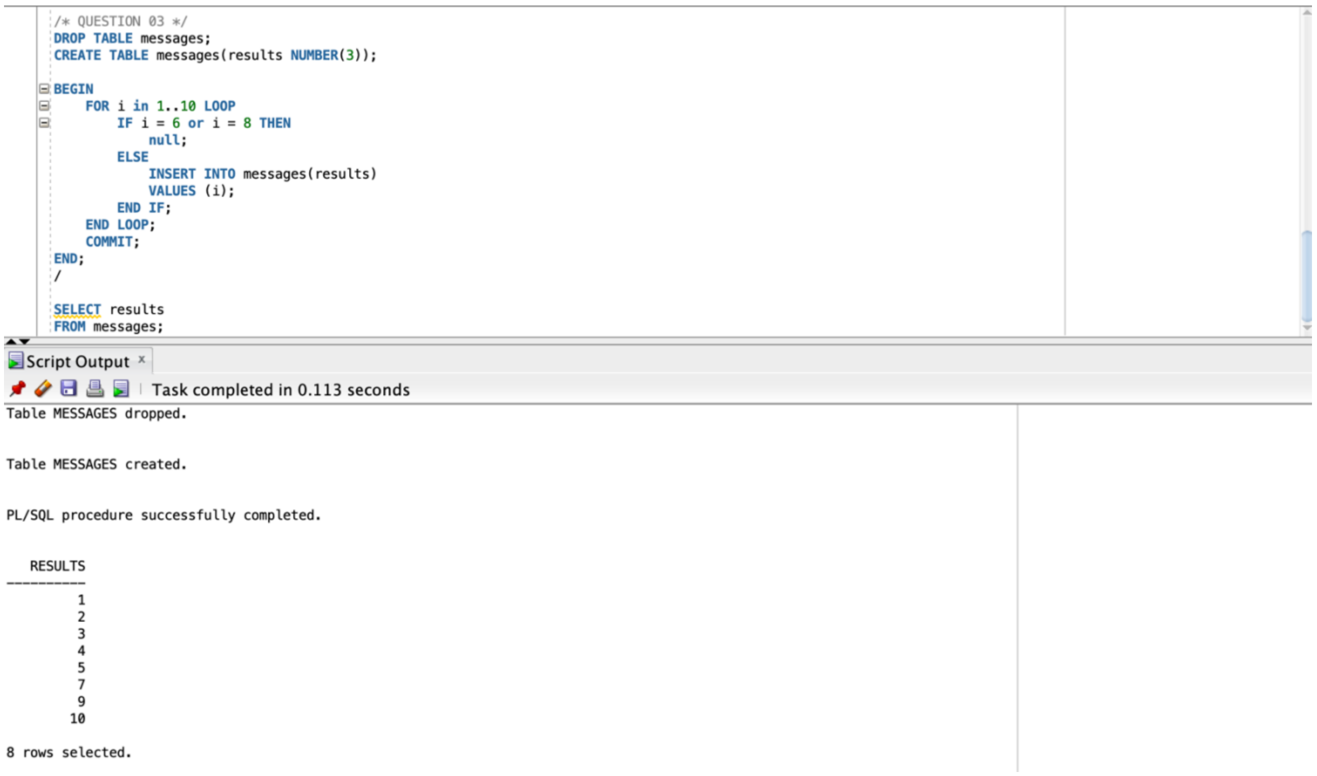
Question 3

Run below script to create the table
DROP TABLE messages;
CREATE TABLE messages (results NUMBER(3));

a) Insert the numbers 1 through 10, excluding 6 and 8.
b) Commit before the end of the block.
c) Execute a SELECT statement to verify that your PL/SQL block worked.

```
DROP TABLE messages;
CREATE TABLE messages(results NUMBER(3));


BEGIN
  FOR i in 1..10 LOOP
    IF i = 6 or i = 8 THEN
      null;
    ELSE
      INSERT INTO messages(results)
      VALUES (i);
```

```
        END IF;
    END LOOP;
    COMMIT;
END;
/

SELECT results
FROM messages;
```



```
/* QUESTION 03 */
DROP TABLE messages;
CREATE TABLE messages(results NUMBER(3));

BEGIN
    FOR i in 1..10 LOOP
        IF i = 6 or i = 8 THEN
            null;
        ELSE
            INSERT INTO messages(results)
            VALUES (i);
        END IF;
    END LOOP;
    COMMIT;
END;
/

SELECT results
FROM messages;
```

Script Output

Task completed in 0.113 seconds

```
Table MESSAGES dropped.


Table MESSAGES created.


PL/SQL procedure successfully completed.


   RESULTS
----------
         1
         2
         3
         4
         5
         7
         9
        10

8 rows selected.
```

Submission:

- Copy your code to a MS-word file
- Include a screenshot of the output of each code segment.
- This assignment should be done individually
- Submit your work to e-centennial
- Email submission will be ignored