FE 513: Homework Assignment 2

Rishikesh Yadav
CWID: 20007668

Question 1

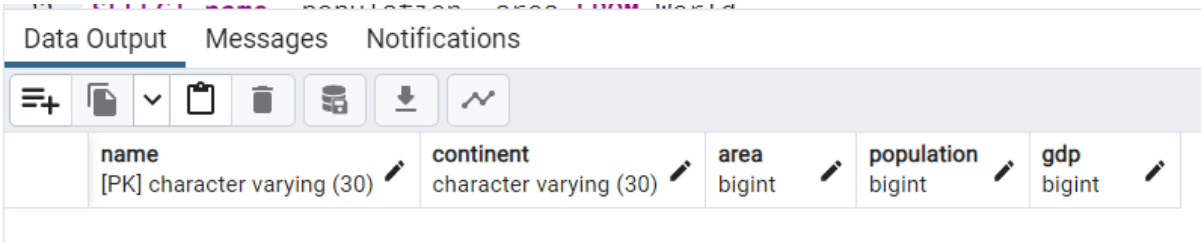
1.1 Creating table "World" which contains information about countries:

Script:

```
DROP TABLE IF EXISTS World;

CREATE TABLE IF NOT EXISTS World(
        name varchar(30),
        continent varchar(30),
        area bigint,
        population bigint,
        gdp bigint,
        PRIMARY KEY (name)
);
```

Result:



1.2 Inserting sample records in "World".

Script:

```
INSERT INTO World(name, continent, area, population, gdp)
VALUES('Afghanistan', 'Asia', 652230, 25500100, 20343000000),
        ('Albania', 'Europe', 28748, 2831741, 12960000000),
        ('Algeria','Africa',2381741,37100000,188681000000),
        ('Andorra', 'Europe', 468, 78115, 3712000000),
        ('Angola', 'Africa', 1246700, 20609294, 100990000000);

SELECT * FROM World;
```

Result:

Data Output | Messages | Notifications

	name [PK] character varying (30)	continent character varying (30)	area bigint	population bigint	gdp bigint
1	Afghanistan	Asia	652230	25500100	20343000000
2	Albania	Europe	28748	2831741	12960000000
3	Algeria	Africa	2381741	37100000	188681000000
4	Andorra	Europe	468	78115	3712000000
5	Angola	Africa	1246700	20609294	100990000000

1.3 Query to report the name, population, and area of the big countries.

Script:

```
SELECT name, population, area FROM World
WHERE area>=3000000
OR population >= 25000000;
```

Result:

Data Output | Messages | Notifications

	name [PK] character varying (30)	population bigint	area bigint
1	Afghanistan	25500100	652230
2	Algeria	37100000	2381741

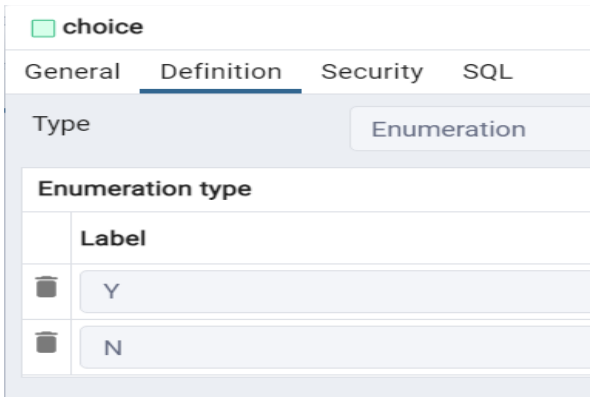
Question 2

2.1 Creating Enum type choice.

Script:

```
CREATE TYPE choice AS ENUM('Y', 'N');
```

Result:

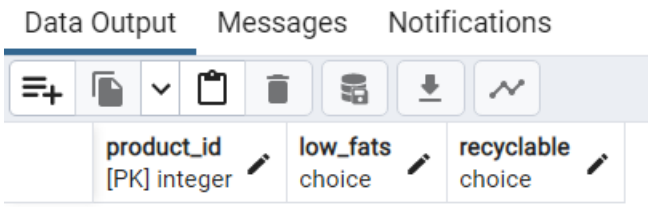


2.2 Creating table “Products table”.

Script:

```
DROP TABLE IF EXISTS Products_table;
CREATE TABLE IF NOT EXISTS Products_table(
        product_id int,
        low_fats choice,
        recyclable choice,
        PRIMARY KEY (product_id)
);
```

Result:



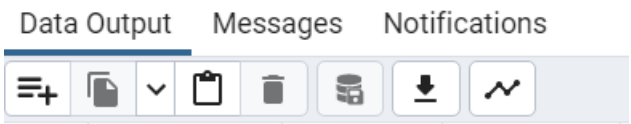
2.3 Inserting sample records in Products_table.

Script:

```
INSERT INTO Products_table(product_id, low_fats, recyclable)
VALUES(0,'Y','N'),
        (1,'Y','Y'),
        (2,'N','Y'),
        (3,'Y','Y'),
        (4,'N','N');

SELECT * FROM Products_table;
```

Result:



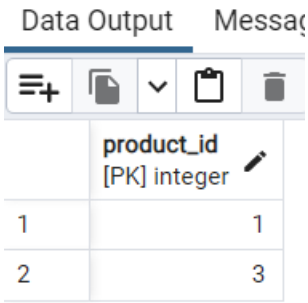
	product_id [PK] integer	low_fats choice	recyclable choice
1	0	Y	N
2	1	Y	Y
3	2	N	Y
4	3	Y	Y
5	4	N	N

2.4 Query to find the IDs of products that are both low-fat and recyclable.

Script:

```
SELECT product_id FROM Products_table
WHERE low_fats = 'Y'
AND recyclable = 'Y';
```

Result:



	product_id [PK] integer
1	1
2	3