

DBMS
ASSIGNMENT: 3
VERSION: 1
202412012
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Practice Set:

1. Create a simple function to print “HELLO WORLD” using GUI.

The image shows a 'Create - Function' dialog box with the following details:

- Title:** Create - Function
- Tabs:** General, Definition, Code, Options, Parameters, Security, SQL
- Name:** fun_hello_world_GUI
- Owner:** postgres
- Schema:** EC_DB
- Comment:** (Empty text area)
- Buttons:** Close, Reset, Save

Create - Function

General

Definition

Code

Options

Parameters

Security

SQL

Return type

character varying

X | v

Language

plpgsql

X | v

Arguments

+

Data type	Mode	Argument name	Default
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i

?

X Close

Reset

Save

Create - Function

General

Definition

Code

Options

Parameters

Security

SQL

1 BEGIN

2 Return "HELLO WORLD";

3 END

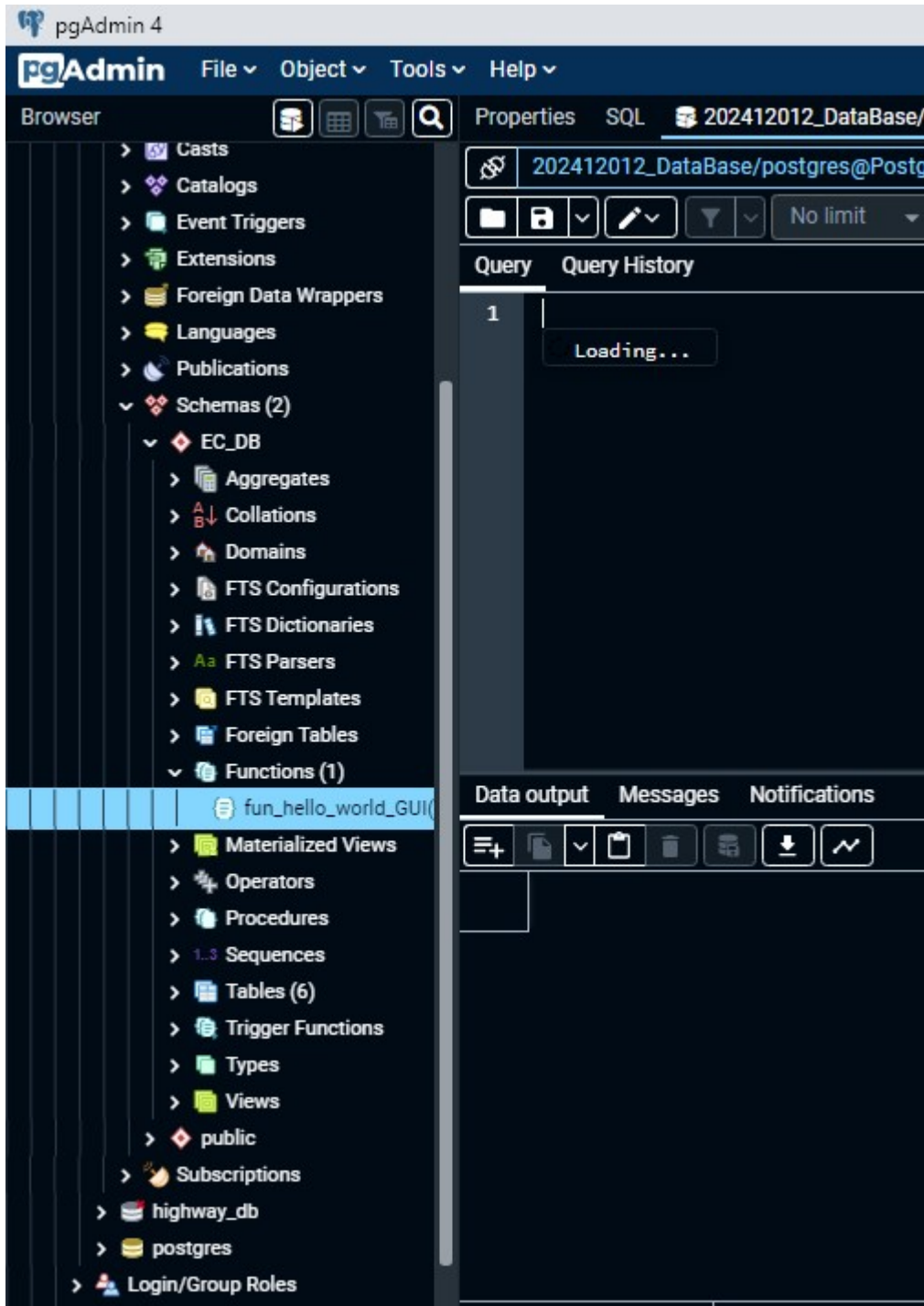
i

?

X Close

Reset

Save

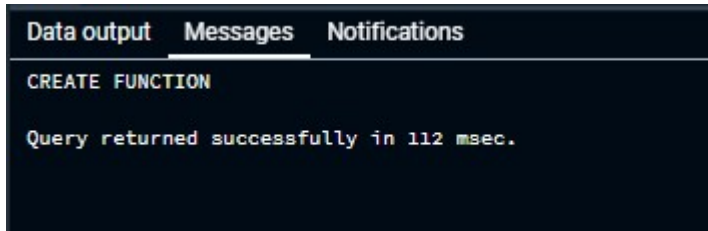


2. Create a simple function to print “HELLO WORLD” using SQL.

set search_path to "EC_DB";

```
CREATE OR REPLACE FUNCTION "EC_DB"."fun_hello_world_SQL"()  
RETURNS character varying
```

```
LANGUAGE 'plpgsql'
AS $BODY$
BEGIN
return "HELLO WORLD!";
END;
$BODY$;
```



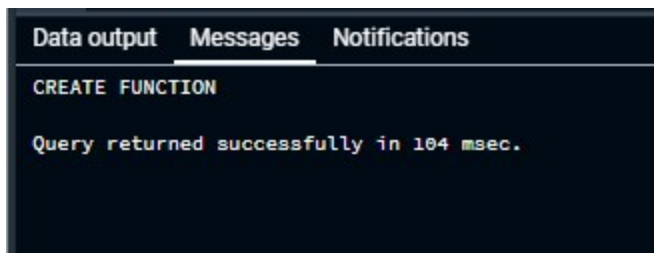
3. Using the function. “Function calls”.

```
SELECT "EC_DB"."fun_hello_world_SQL"();
```

4. Create functions with parameters that return the SUM of two numbers.

```
CREATE OR REPLACE FUNCTION "EC_DB"."Fun_Sum"(a integer, b integer)
RETURNS INTEGER
LANGUAGE 'plpgsql'
AS $BODY$
BEGIN
return (a+b);
END;
$BODY$;
```

```
SELECT "EC_DB"."Fun_Sum"(2, 3)
```



Q1. Create a trigger on table of your choice to check if the primary key ID already exists or not before inserting a new record. & Send a custom reply instead of an error message.

■ NOT WORK PROPERLY

```
CREATE TRIGGER "TRIGGER_CHECK_PRIMARY_KEY"
BEFORE INSERT
ON "EC_DB".users
FOR EACH ROW
EXECUTE PROCEDURE
"EC_DB"."TRIGGER_FUNCTION_CHECK_PRIMARY_KEY"();

CREATE OR REPLACE FUNCTION
"EC_DB"."TRIGGER_FUNCTION_CHECK_PRIMARY_KEY"(old_user_id INT)
LANGUAGE 'plpgsql'
AS $BODY$
BEGIN
    IF("EC_DB".users.user_id = old_user_id) THEN

END
$BODY$;
```