**Purpose:**

This function returns the total information with respect to the model and transmission for the vehicles available in the outlet.

**Description:**

We provide the model and transmission as the inputs and created an alias for model input and alias for transmission input, Checking whether the model and transmission is null or any junk value that is not present in the database and counting how many models, and how many vehicles are with that model and the input transmission, return in a single concat text all the info, 'the model or the transmission for this vehicles does not exist', type as not valid model or transmission.

**Function with line to line description**

CREATE OR REPLACE FUNCTION total\_cars\_by\_model\_and\_transmission(model text, trans text)

RETURNS text AS

$BODY$

DECLARE

x1 text := 'For the model: ';

x2 text := ' exists ';

x3 text := ' ';

x4 text := ' Vehicules ';

/\*given an alias for model input\*/

x5 alias for $1;

/\*given an alias for transmission input\*/

x6 alias for $2;

BEGIN

/\*I check this because the input can be null or not in the database\*/

IF (length(x5)>0 and length(x6)>0) then

IF(((select count(\*) from vehicule\_model

where vehicule\_model.name = x5)>0 /\*counting how many models\*/) and

((select count(vehicule.\*) from vehicule, vehicule\_category\_model, vehicule\_model

where vehicule.transmission = x6 and

fk\_vehicule\_category\_model\_id = pk\_vehicule\_category\_model\_id and

vehicule\_model.name = x5)>0)/\* and counting how many vehicles are with that model and the input transmission\*/ ) then

RETURN

(select x1 || x5 || x2 || vehicule.availables ||x3 ||

x6 || x4

from vehicule\_model, vehicule, vehicule\_category\_model

where pk\_vehicule\_model\_id = fk\_vehicule\_model\_id and

pk\_vehicule\_category\_model\_id = fk\_vehicule\_category\_model\_id and

vehicule\_model.name = x5 and

vehicule.transmission = x6); /\*here i return in a single concat text all the info\*/

ELSE RETURN 'THE MODEL OR THE TRANSMISSION FOR THIS VEHICULES DOESNT EXIST';

END IF;

ELSE RETURN 'PLEASE TYPE A VALID MODEL OR TRANSMISSION';

END IF; /\*the else clause of the external if, it shows a message that the input is not valid\*/

END

$BODY$

LANGUAGE plpgsql VOLATILE

COST 100;

ALTER FUNCTION total\_cars\_by\_model\_and\_transmission(text, text)

OWNER TO postgres;