Database For Souq.com

1. Users Table

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| userID (PK) | username | First Name | Last Name | Birthdate | Password | Job | Email | Credit Limit | balance | Address | Interests | isAdmin |

1. Products Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product Id (PK) | Category\_ID (FK) | Product Name | Price | Quantity of product | Description | Image as URL | IS Available |

1. Category

|  |  |
| --- | --- |
| CategoryID (PK) | Category Name |

1. User-Cart

|  |  |  |  |
| --- | --- | --- | --- |
| Cart ID (PK) | UserID (PK) | Is Submitted | Submitted Date |
| 1 | 1 | False |  |

1. Cart-Saved

|  |  |  |  |
| --- | --- | --- | --- |
| Cart ID (PK) | Product ID (PK) | Quantity | Price After Buying |
| 1 | 1 | 1 |  |

Functions

1. Create a Admin Profile

CREATE OR REPLACE FUNCTION createadminOrClient (userName text ,firstName text, lastName text, birthDate text,userPass text, userJob text, userEmail text,creditUser float,balanceUser float,userAddress text,userInterests text) RETURNS boolean AS $$

DECLARE

Isuser boolean;

BEGIN

Select checkuser(username) into isuser;

IF Isuser = true THEN

INSERT INTO users (uname,fname,lname,bd,password,job,email, creditlimit, balance, address, interests,isAdmin) VALUES (username, firstName, lastName, birthdate, userPass, userJob,userEmail, creditUser, balanceUser, userAddress,userInterests,true);

RETURN true;

ELSE RETURN false;

END IF;

END;

$$ LANGUAGE plpgsql;

\*\* select createadmin ('qazs','amr','walid','13-12-1993','123456','dev','amrwsk@gmail.com',0,0,'agouza','sports');

1. Create a client profile

CREATE OR REPLACE FUNCTION createclient (userName text ,firstName text, lastName text, birthDate text,userPass text, userJob text, userEmail text,userAddress text,userInterests text) RETURNS boolean AS $$

DECLARE

Isuser boolean;

BEGIN

Select checkuser(username) into isuser;

IF Isuser = true THEN

INSERT INTO users (uname,fname,lname,bd,password,job,email, creditlimit, balance, address, interests, isAdmin) VALUES (username, firstName, lastName, birthdate, userPass, userJob,userEmail,0,0, userAddress,userInterests,false);

RETURN true;

ELSE RETURN false;

END IF;

END;

$$ LANGUAGE plpgsql;

\*\* select createclient ('qazs','amr','walid','13-12-1993','123456','dev','amrwsk@gmail.com','agouza','sports');

1. To create Make the check inside the create function

CREATE OR REPLACE FUNCTION checkUser (UserName text) RETURNS boolean AS $$

DECLARE

numberOfUsers int;

BEGIN

SELECT COUNT(\*) into numberOfUsers FROM users WHERE uname = UserName;

IF numberOfUsers = 0 THEN RETURN true;

ELSE RETURN false;

END IF;

END;

$$ LANGUAGE plpgsql;

1. To Check The Login of the Client

CREATE OR REPLACE FUNCTION checkLogin (username text, userPassword text) RETURNS boolean AS $$

DECLARE

numberOfusers int;

BEGIN

SELECT COUNT(\*) INTO numberOfUsers FROM users WHERE username in (uname, email) AND password = userPassword;

IF numberOfUsers = 0 THEN RETURN false;

ELSE RETURN true;

END IF;

END;

$$ LANGUAGE plpgsql;

\*\* SELECT checklogin ('amrwsk@gmail.com','12356');

1. Check the user type Whether Admin Or Client

CREATE OR REPLACE FUNCTION checkIsAdmin (username text) RETURNS boolean AS $$

DECLARE

isUserAdmin boolean;

BEGIN

SELECT isadmin INTO isUserAdmin FROM users WHERE username in (uname,email);

IF isUserAdmin THEN RETURN true;

ELSE RETURN false;

END IF;

END;

$$ LANGUAGE plpgsql;

\*\* SELECT checkisadmin ('amrwsk@gmial.com');

1. Add New Category

CREATE OR REPLACE FUNCTION addCategory (cat text) RETURNS boolean AS $$

DECLARE

BEGIN

INSERT INTO category (categoryname) VALUES (cat);

RETURN TRUE;

END;

$$ LANGUAGE plpgsql;

1. Remove Category

CREATE OR REPLACE FUNCTION removeCategory (cat text) RETURNS boolean AS $$

DECLARE

BEGIN

DELETE FROM category WHERE categoryname = cat;

RETURN TRUE;

END;

$$ LANGUAGE plpgsql;

1. Delete User

CREATE OR REPLACE FUNCTION deleteUser (userID int) RETURNS boolean AS $$

DECLARE

cid int;

BEGIN

SELECT cartid INTO cid FROM usercart WHERE user\_id = userID;

DELETE FROM cartsaved WHERE cart\_id = cid;

DELETE FROM usercart WHERE cartid = cid;

DELETE FROM users WHERE uid = userID;

RETURN TRUE;

END;

$$ LANGUAGE plpgsql;