

# REPORT ON PLASMA DONOR APPLICATION

→ The main steps followed in this application are:

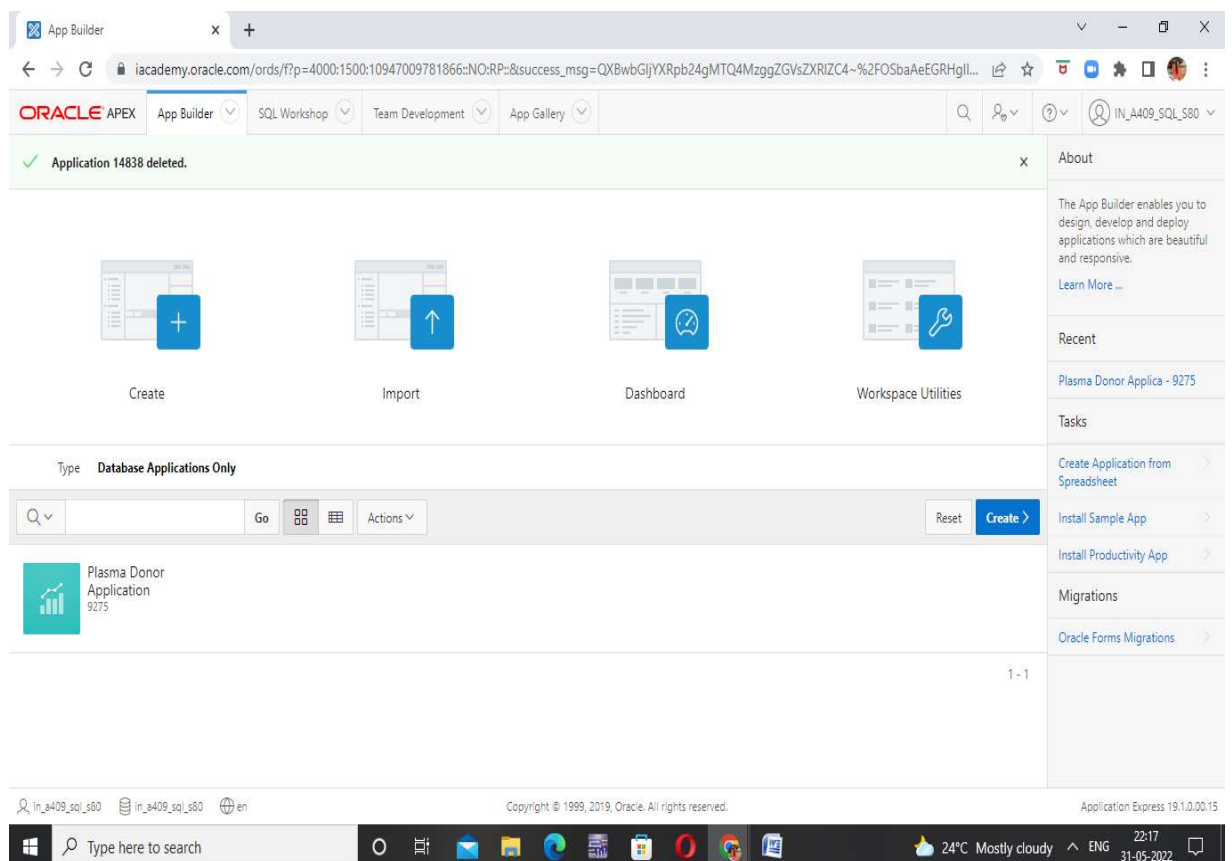
1. Login to OracleApex Workspace:

USERNAME: IN\_A409\_SQL\_S80

PASSWORD: Mareddy@1234

→ Instead of using these developer login credentials let us create a “USER\_ACCOUNT” table and use those “user\_name” and “password” columns data to login to our application.

→ First create an application named “Plasma Donor Application”



## 2. Create USER\_ACCOUNT Table and implement package:

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists tables: DONOR\_DETAILS, HTMLDB\_PLAN\_TABLE, PATIENT\_DETAILS, and USER\_ACCOUNT (selected). The main area displays the structure of the USER\_ACCOUNT table in the IN\_A409\_SQL\_S80 schema. The table has the following columns:

Column Name	Data Type	Nullable	Default	Primary Key
USER_NAME	VARCHAR2(100)	No	-	1
PASSWORD	VARCHAR2(30)	No	-	-
USER_TYPE	VARCHAR2(10)	Yes	-	-
ACTIVE	CHAR(1)	Yes	-	-
EMAIL	VARCHAR2(64)	Yes	-	-
SOURCE	VARCHAR2(50)	Yes	-	-

Buttons for table management (Add Column, Modify Column, Rename Column, Drop Column, Rename, Copy, Drop, Truncate, Create Lookup Table) are visible above the table structure. The bottom status bar shows the application is Oracle APEX 19.1.0.00.15.

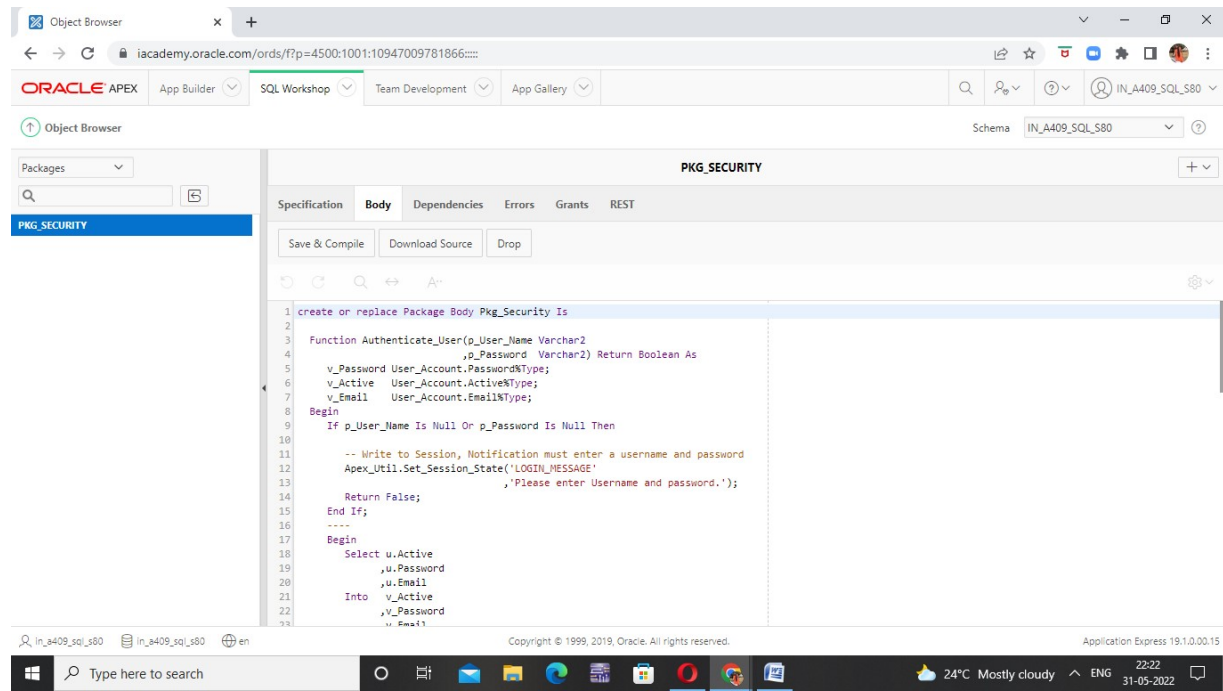
## USER\_ACCOUNT TABLE

The screenshot shows the Oracle APEX Object Browser interface with the PKG\_SECURITY package selected. The left sidebar lists packages: PKG\_SECURITY (selected). The main area displays the specification of the PKG\_SECURITY package in the IN\_A409\_SQL\_S80 schema. The package specification is as follows:

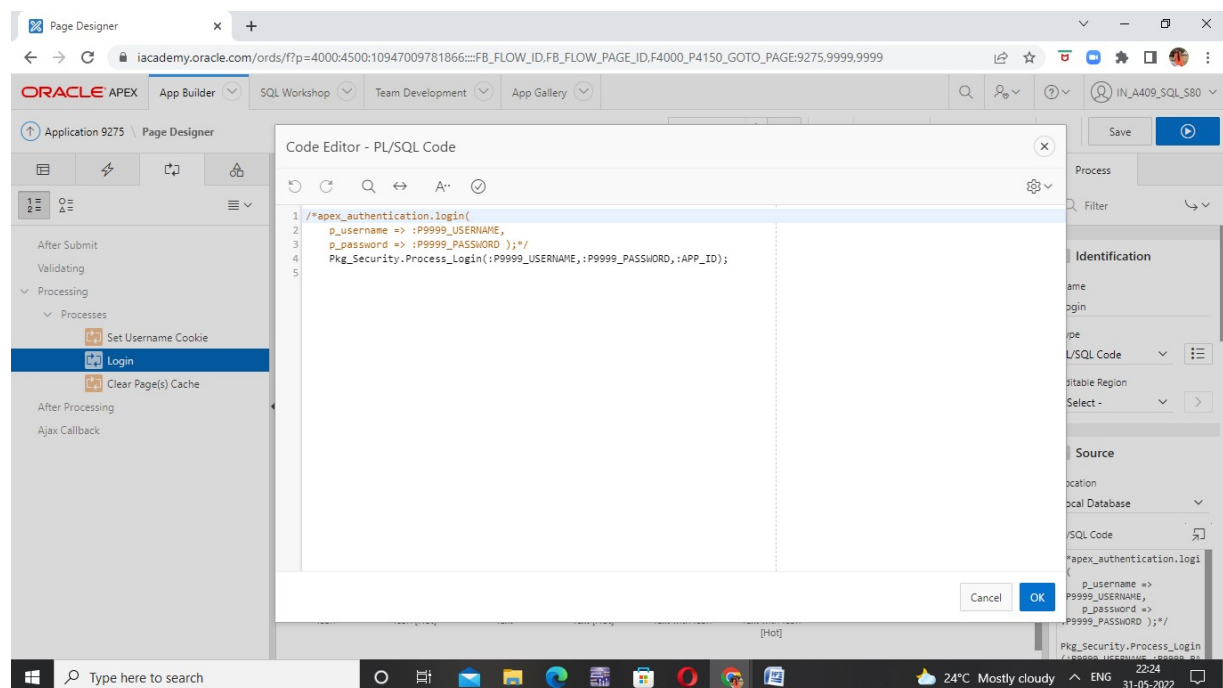
```
1 create or replace Package Pkg_Security Is
2
3   Function Authenticate_User(p_User_Name Varchar2
4                           ,p_Password Varchar2) Return Boolean;
5
6   -----
7   Procedure Process_Login(p_User_Name Varchar2
8                       ,p_Password Varchar2
9                       ,p_App_Id Number);
10
11 End Pkg_Security;
12
```

Buttons for package management (Save & Compile, Download Source, Drop) are visible above the package specification. The bottom status bar shows the application is Oracle APEX 19.1.0.00.15.

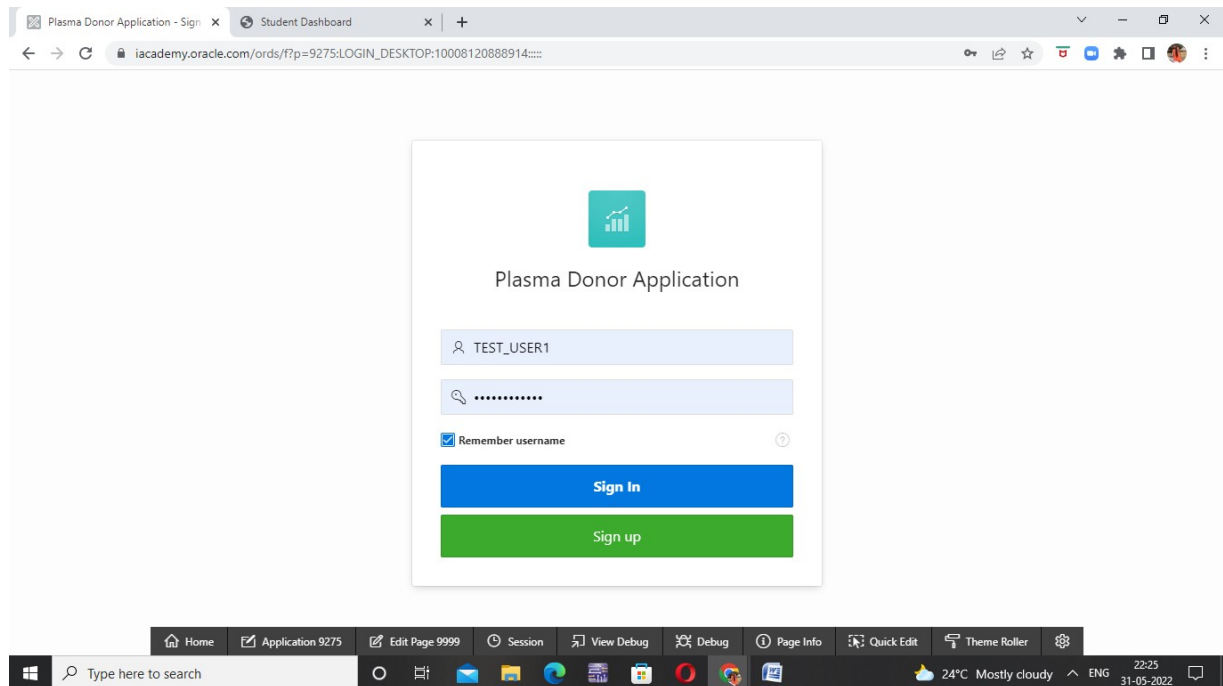
## Package named “PKG\_SECURITY” Creation



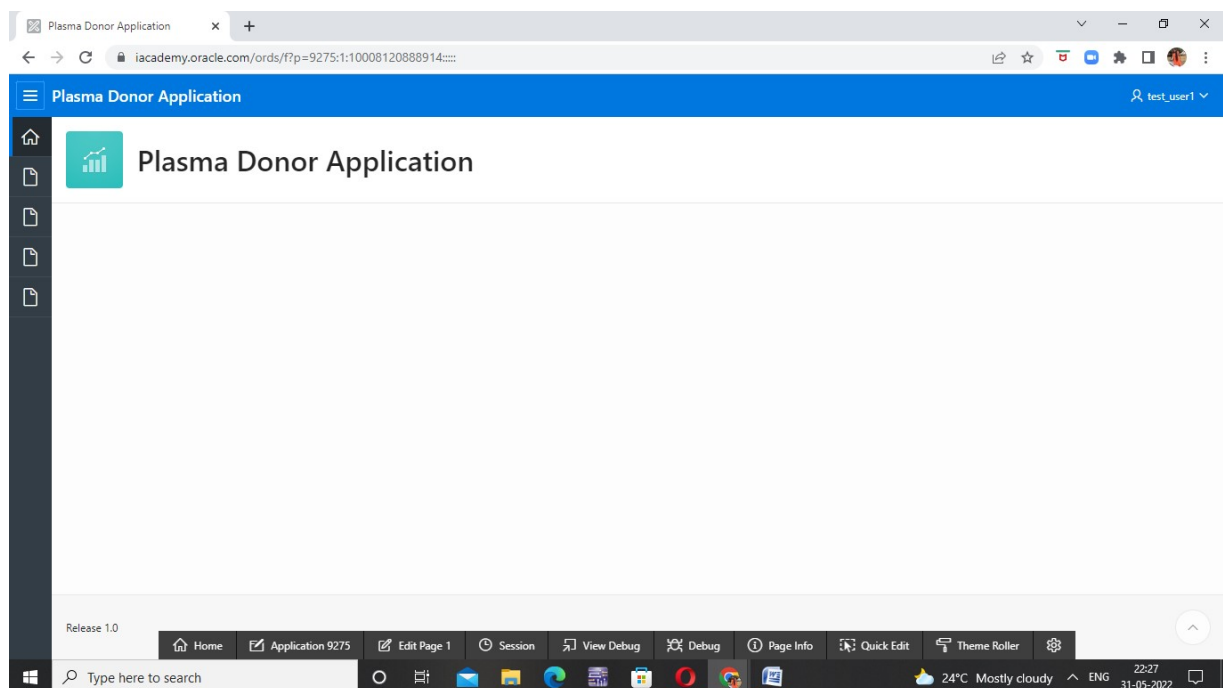
## PKG\_SECURITY BODY



## LINKING OF PACKAGE WITH SIGN IN BUTTON

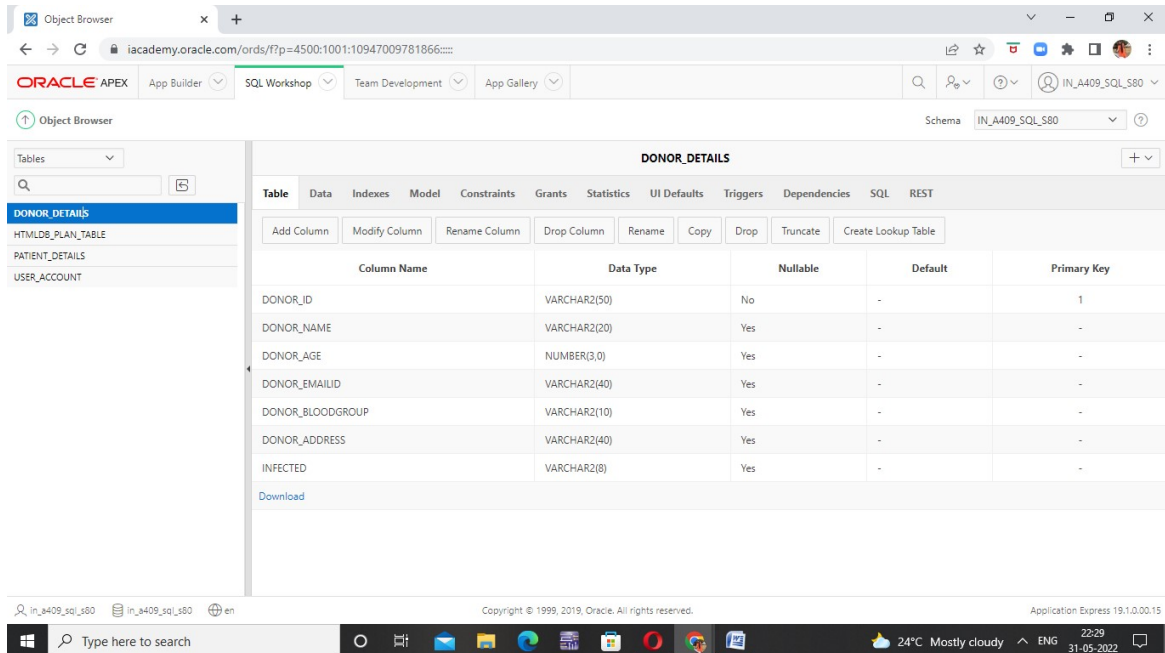


## LOGGING IN WITH “USER\_ACCOUNT” CREDENTIALS



## SIGNING IN TO “Plasma Donor Application”

### 3. CREATE DONOR\_DETAILS TABLE



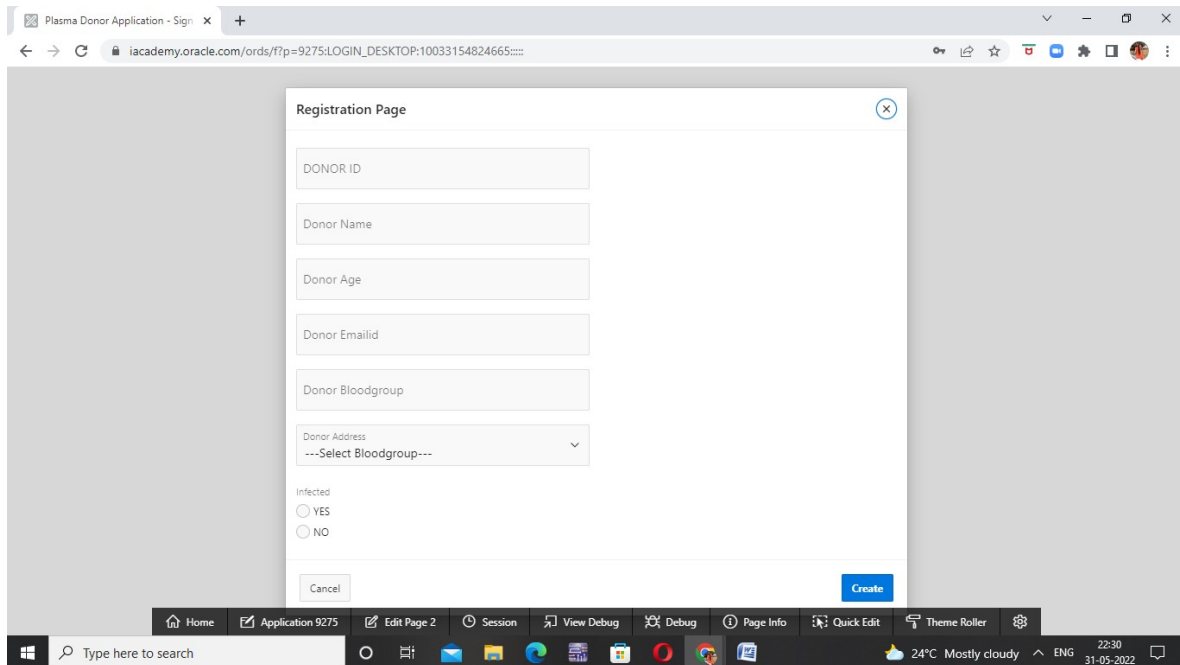
The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists the schema 'IN\_A409\_SQL\_S80' and its tables: 'DONOR\_DETAILS', 'HTMLODS\_PLAN\_TABLE', 'PATIENT\_DETAILS', and 'USER\_ACCOUNT'. The main area displays the 'DONOR\_DETAILS' table structure with the following columns:

Column Name	Data Type	Nullable	Default	Primary Key
DONOR_ID	VARCHAR2(50)	No	-	1
DONOR_NAME	VARCHAR2(20)	Yes	-	-
DONOR_AGE	NUMBER(3,0)	Yes	-	-
DONOR_EMAILID	VARCHAR2(40)	Yes	-	-
DONOR_BLOODGROUP	VARCHAR2(10)	Yes	-	-
DONOR_ADDRESS	VARCHAR2(40)	Yes	-	-
INFECTED	VARCHAR2(8)	Yes	-	-

Below the table structure, there is a 'Download' link. The bottom of the screenshot shows the Windows taskbar with the date '31-05-2022' and time '22:29'.

### DONOR\_DETAILS TABLE

### 4) CREATING REGISTRATION PAGE



The screenshot shows the 'Plasma Donor Application - Sign Up' page. The registration form includes the following fields:

- DONOR ID
- Donor Name
- Donor Age
- Donor Emailid
- Donor Bloodgroup
- Donor Address (with a dropdown menu showing '---Select Bloodgroup---
- Infected (with radio buttons for YES and NO)

At the bottom of the form, there are 'Cancel' and 'Create' buttons. The bottom of the screenshot shows the Windows taskbar with the date '31-05-2022' and time '22:30'.

### REGISTRATION PAGE LINKED WITH 'SIGN UP'

## 5) CREATING DONOR DETAILS PAGE

Donor Details

Plasma Donor Application

Create Form

DONOR ID

Donor Name

Donor Age

Donor Emailid

Donor Bloodgroup  
---Select Bloodgroup---

Donor Address

Infected  
☐ YES  
☐ NO

Cancel

Donor registration

## 6) CREATING DASHBOARD PAGE

Dashboard Page

Plasma Donor Application

Donor Id Donor Name Donor Age Donor Emailid Donor Bloodgroup Donor Address Infected

1	SNEHA	20	snehamareddy444@gmail.com	B(+ve)	HASTHINAPURAM	NO
4	VENKAT REDDY	45	venkatreddymareddy444@gmail.com	A(+ve)	CHINTAGUDEM	NO
2	KEERTHI	20	gkeerthi2211@gmail.com	AB(-ve)	NALGONDA	NO
3	SANTOSH	20	chittybrokavul@gmail.com	O(+ve)	MANGALPALLY	YES

1 - 4

## 7) CREATING PATIENT\_DETAILS TABLE

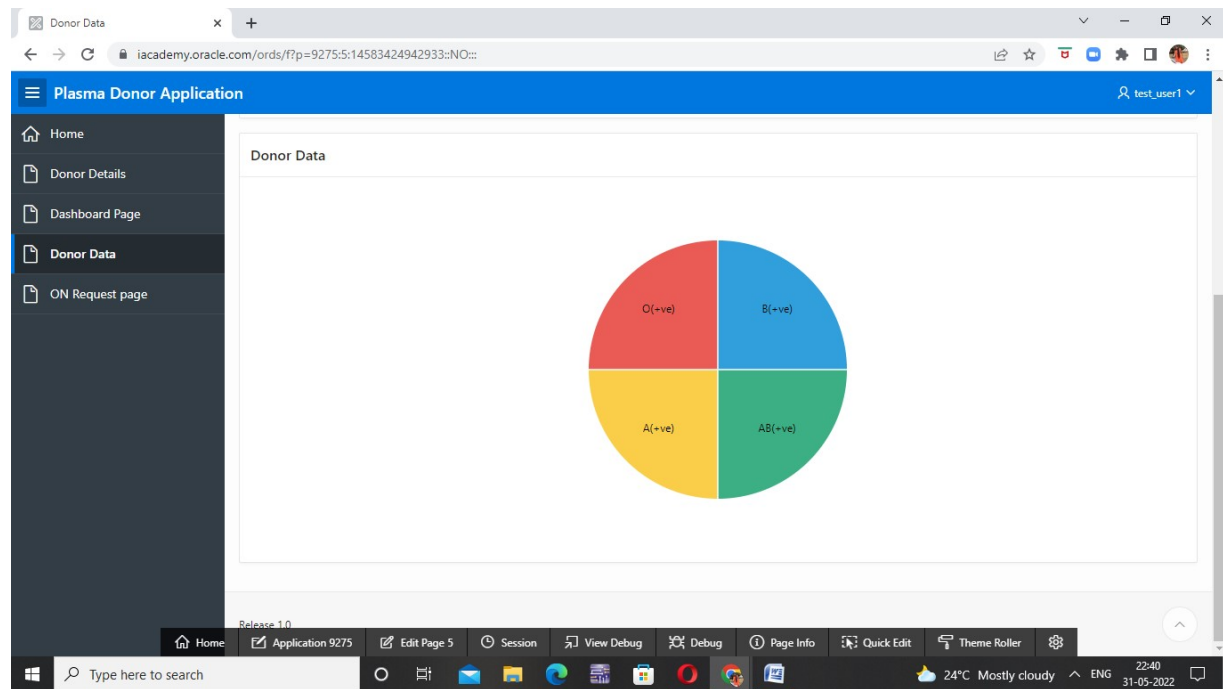
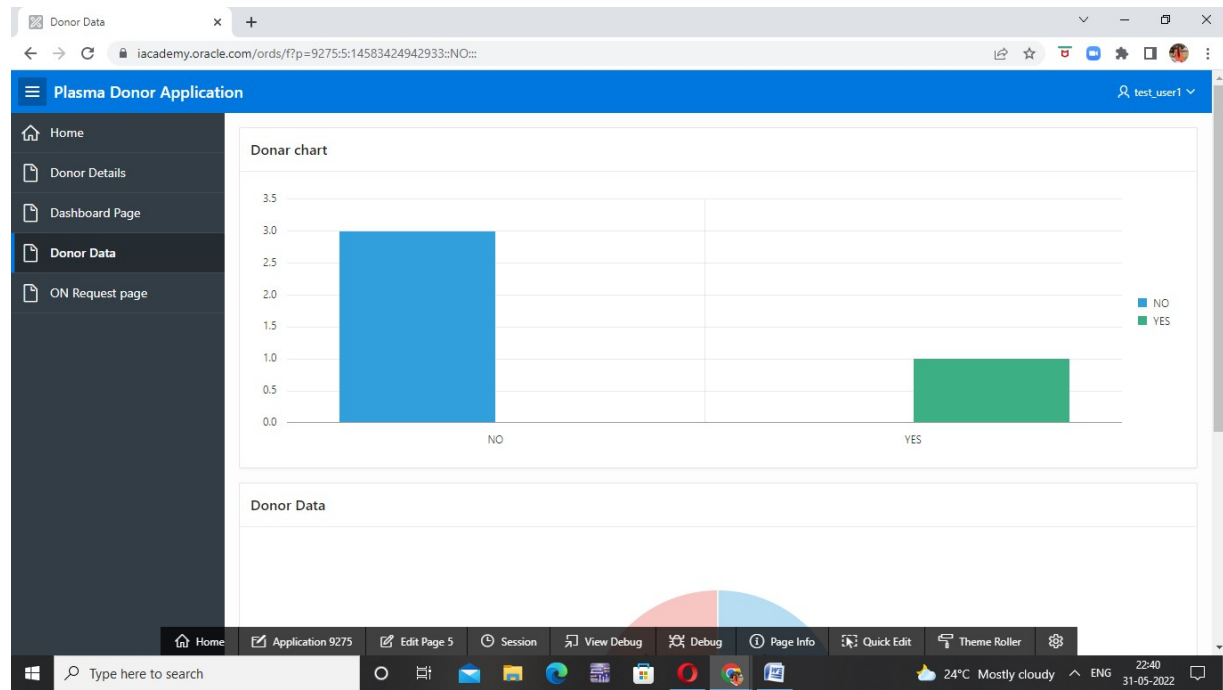
The screenshot shows the Oracle APEX SQL Workshop interface. The left sidebar displays the 'Object Browser' with a tree view containing 'DONOR\_DETAILS', 'HTMLDB\_PLAN\_TABLE', 'PATIENT\_DETAILS', and 'USER\_ACCOUNT'. The 'PATIENT\_DETAILS' table is selected. The main area shows the table's structure with tabs for 'Table', 'Data', 'Indexes', 'Model', 'Constraints', 'Grants', 'Statistics', 'UI Defaults', 'Triggers', 'Dependencies', 'SQL', and 'REST'. The 'Table' tab is active, showing a table with 8 columns: PATIENT\_ID, PATIENT\_NAME, PATIENT\_AGE, IS\_PLASMA\_NEEDED, PATIENT\_BLOODGROUP, PATIENT\_ADDRESS, PATIENT\_GENDER, and PATIENT\_EMAILID. The table is located in the 'IN\_A409\_SQL\_S80' schema.

Column Name	Data Type	Nullable	Default	Primary Key
PATIENT_ID	VARCHAR2(10)	No	-	1
PATIENT_NAME	VARCHAR2(20)	Yes	-	-
PATIENT_AGE	NUMBER(3,0)	Yes	-	-
IS_PLASMA_NEEDED	CHAR(5)	Yes	-	-
PATIENT_BLOODGROUP	VARCHAR2(10)	Yes	-	-
PATIENT_ADDRESS	VARCHAR2(15)	Yes	-	-
PATIENT_GENDER	VARCHAR2(8)	Yes	-	-
PATIENT_EMAILID	VARCHAR2(40)	Yes	-	-

## 8) CREATING ON REQUEST PAGE

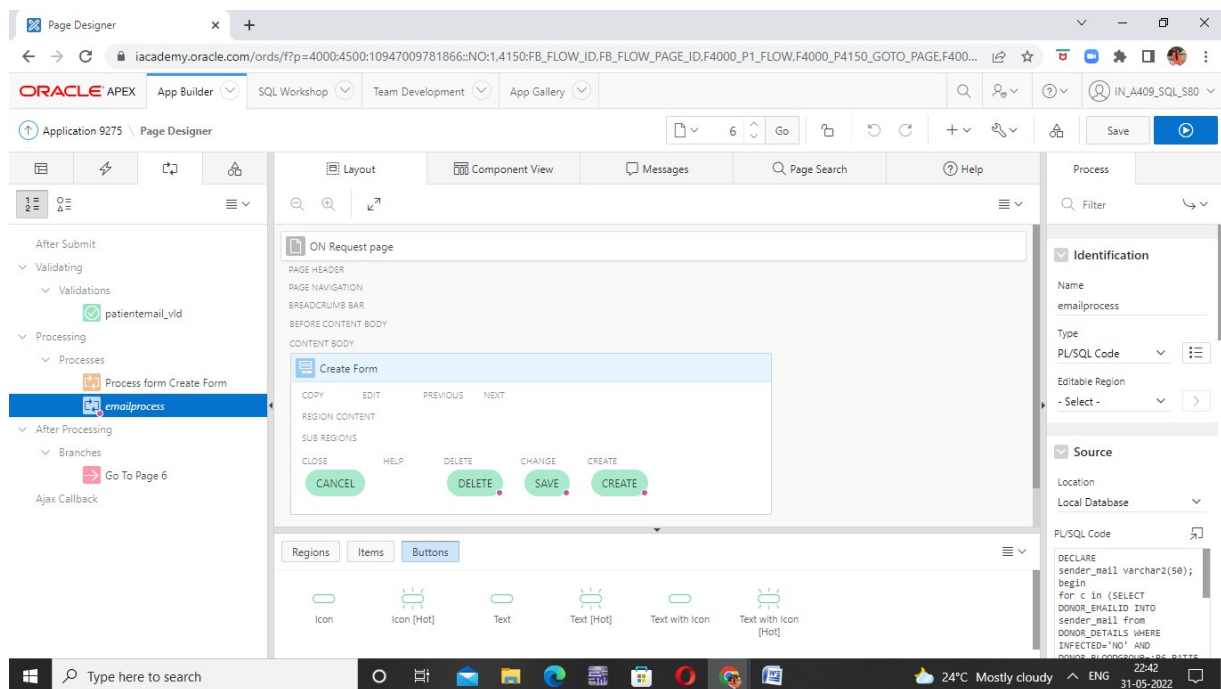
The screenshot shows the 'ON Request page' in the 'Plasma Donor Application'. The page has a blue header with the application name and a user dropdown set to 'test\_user1'. A dark sidebar on the left contains navigation links: 'Home', 'Donor Details', 'Dashboard Page', 'Donor Data', and 'ON Request page' (which is highlighted). The main content area contains a form with the following fields: 'Patient Name' (text input), 'Patient Age' (text input), 'Is Plasma Needed' (radio buttons for YES and NO), 'Patient Bloodgroup' (dropdown menu with '---Select Bloodgroup---'), 'Patient Gender' (radio buttons for MALE, FEMALE, and OTHER), 'Patient Emailid' (text input), and 'Patient Address' (text input). At the bottom of the form are 'Cancel' and 'SEND EMAIL' buttons. The footer of the application shows various utility links like 'Home', 'Application 9275', 'Edit Page 6', 'Session', 'View Debug', 'Debug', 'Page Info', 'Quick Edit', and 'Theme Roller'.

## 9) CREATING DONOR DATA PAGE

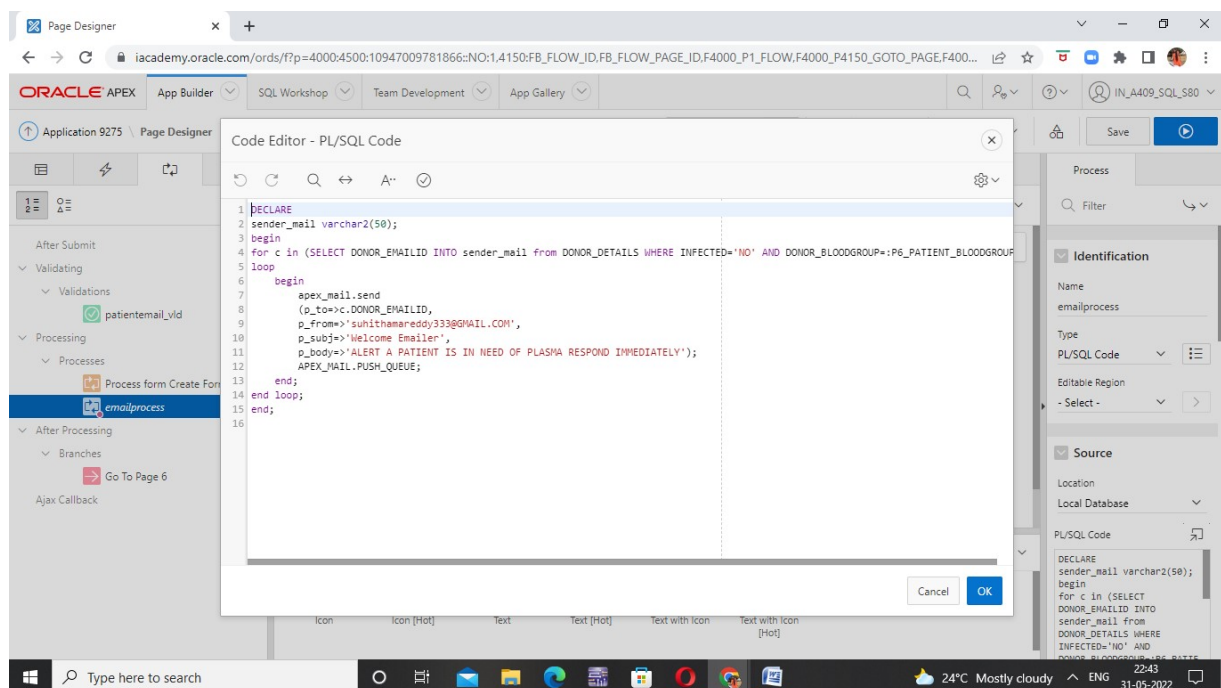




## 10) SEND EMAIL



## CREATE PROCESS CALLED “emailprocess” in ONREQUEST PAGE



## PL/SQL CODE FOR SENDING EMAIL TO DONORS

## 11) TEST WEB APPLICATION

The screenshot shows a web browser window with the URL `iacademy.oracle.com/ords/?p=9275:6:14583424942933:NO::`. The page title is "Plasma Donor Application" and the user is logged in as "test\_user1". The left sidebar contains a menu with "ON Request page" selected. The main form contains the following fields:

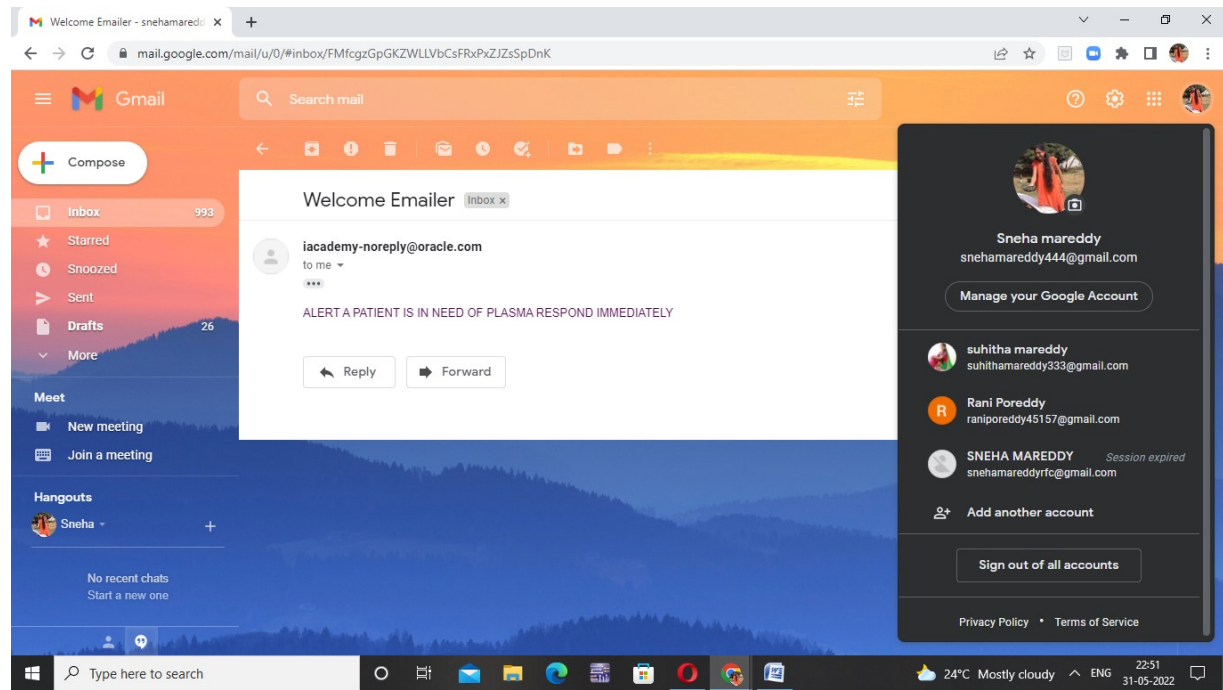
- Patient Name: SARITHA
- Patient Age: 45
- Is Plasma Needed: ☒ YES, ☐ NO
- Patient Bloodgroup: B(+ve)
- Patient Gender: ☐ MALE, ☒ FEMALE, ☐ OTHER
- Patient Emailid: raniporeddy45157@gmail.com
- Patient Address: uppal

At the bottom right of the form is a "SEND EMAIL" button. The bottom of the browser window shows a Windows taskbar with the search bar and various application icons.

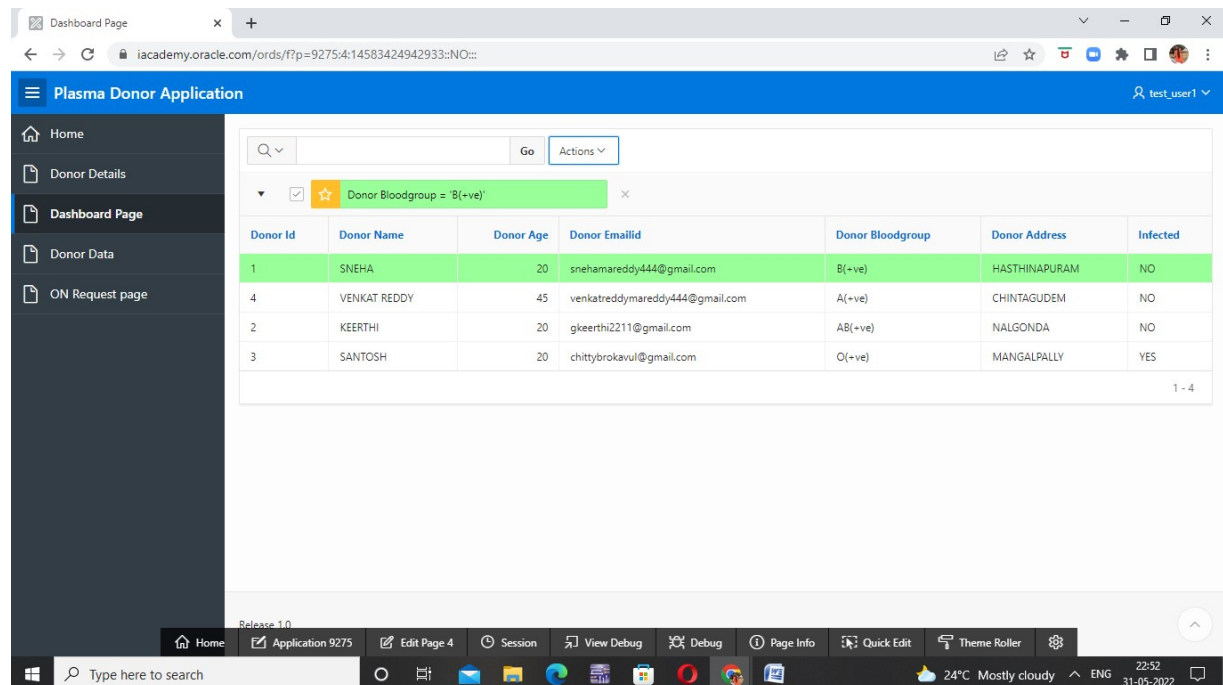
ENTER PATIENT DETAILS(MAIL SENT TO DONOR HAVING SAME BLOOD GROUP AS PATIENT)

The screenshot shows the same web browser window, but the URL now includes a success message: `iacademy.oracle.com/ords/?p=9275:6:14583424942933:NO:RP:6::8:success_msg=Um93IGNyZWZlZWQURU1BSUwgU0V0VCBTVUNDRVNTRIVMTFk~%...`. A green success message box is displayed at the top right: "Row created.EMAIL SENT SUCCESSFULLY". The form fields are now empty, with the "Patient Bloodgroup" dropdown showing "---Select Bloodgroup---". The "SEND EMAIL" button is still present at the bottom right. The Windows taskbar is visible at the bottom.

## VERIFICATION



MAIL IS SENT TO [snehamareddy444@gmail.com](mailto:snehamareddy444@gmail.com)



DONOR BLOODGROUP IS "B(+ve)" WHICH IS SAME AS PATIENT BLOOD GROUP

## **RESULT**

THUS PLASMA DONOR APPLICATION IS CREATED WHERE THE EMAIL IS SENT TO ALL DONORS WHO ARE HAVING SAME BLOOD GROUP AS SOON AS THE PATIENT REGISTERS FOR PLASMA.