

RAJDEEP DAS
EMP ID: 2152683 DATE: 13.06.2022
ASSIGNMENT 6 – ORACLE WORKFLOW BUILDER

1. Create a workflow to allow user to perform operation only between 9 am to 6pm.

ANSWER:

CODE PART:

```
CREATE OR REPLACE PACKAGE XXCTS_RAJDEEP_TIMESTAMP_PACK
IS
    PROCEDURE CHECK_TIME (ITEMTYPE IN VARCHAR2,
                           itemkey in varchar2,
                           actid in number,
                           FUNCMODE IN VARCHAR2,
                           RESULT IN OUT VARCHAR2);
END XXCTS_RAJDEEP_TIMESTAMP_PACK;
```

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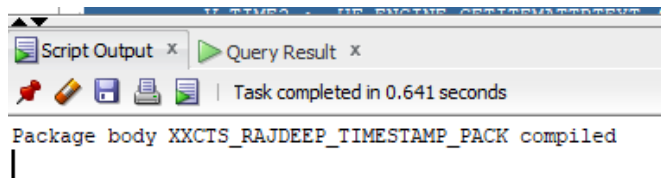
CREATE OR REPLACE PACKAGE BODY XXCTS_RAJDEEP_TIMESTAMP_PACK
IS
    PROCEDURE CHECK_TIME (ITEMTYPE IN VARCHAR2,
                           ITEMKEY in varchar2,
                           ACTID in number,
                           FUNCMODE IN VARCHAR2,
                           RESULT IN OUT VARCHAR2)
    IS
        V_TIME VARCHAR2(3);
        V_TIME2 VARCHAR2(3);
    BEGIN
        SELECT TO_CHAR(SYSDATE, 'HH24')
        INTO V_TIME
        FROM DUAL;

        WF_ENGINE.SETITEMATTRTEXT(ITEMTYPE=>ITEMTYPE, ITEMKEY =>ITEMKEY,
        ANAME=>'TIME_OF_THE_DAY',AVALUE=>V_TIME );
        V_TIME2 := WF_ENGINE.GETITEMATTRTEXT ( ITEMTYPE => ITEMTYPE, ITEMKEY =>
        ITEMKEY,ANAME => 'TIME_OF_THE_DAY');
        IF V_TIME2 BETWEEN 9 AND 18 THEN
            RESULT := 'COMPLETE:Y';
        ELSE
```

```
RESULT := 'COMPLETE:N';  
END IF;
```

```
END CHECK_TIME;  
END XXCTS_RAJDEEP_TIMESTAMP_PACK;
```

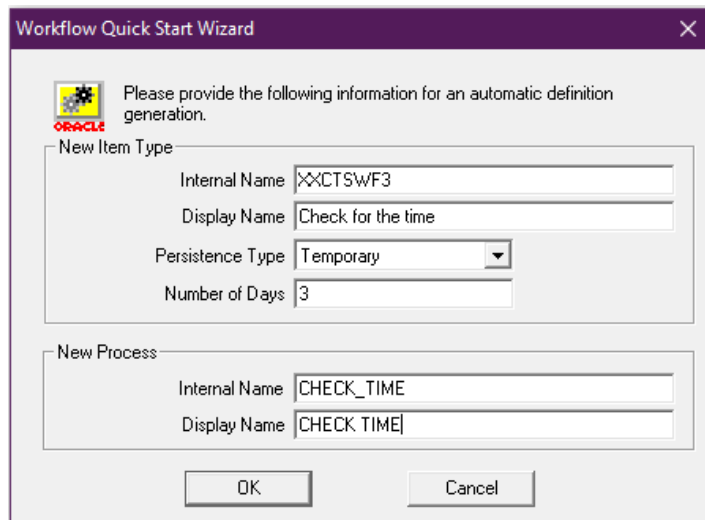
OUTPUT:



Step 1: After creating package go to the Oracle Workflow Builder.

Step 2: Go to File → Quick Start Wizard.

Step 3: Fill the dialogue box as following:



Step 4: After the workflow has been created in the Navigator. Right click on the Attribute → Click on New Attribute. Fill up the dialogue box as follows and the 'Internal name' will be as the 'ANAME' declared in the procedure code mentioned above. Here ANAME => TIME_OF_THE_DAY.

The screenshot shows the 'Navigator Control Properties' dialog box with the 'Access' tab selected. The fields are filled as follows:

Item Type	Check for the time
Internal Name	TIME_OF_THE_DAY
Display Name	TIME_OF_THE_DAY
Description	TIME OF THE DAY
Type	Number
Format	
Default	
Type	Constant
Value	

Buttons at the bottom: OK, Cancel, Apply, Help.

Step 5: Now we have to create two types of messages. One is for Yes and another is for No.

Right click on the Messages → Click on New Message. Under the Message tab in the dialogue box fill up as it is shown:

The screenshot shows the 'Navigator Control Properties' dialog box with the 'Message' tab selected. The fields are filled as follows:

Internal Name	YES_MSG
Display Name	YES_MSG
Description	
Priority	Normal

Buttons at the bottom: OK, Cancel, Apply, Help.

Step 6: Under the Body tab, fill the Text Body with the following shown message. The '&TIME_OF_THE_DAY' in the message box denotes the exact current timestamp to ensure if the user can work .

Navigator Control Properties

Message | **Body** | Roles | Access | Result

Subject YES_MSG

Text Body | HTML Body

Hi,
You are allowed to work.
The time now is &TIME_OF_THE_DAY

...

OK Cancel Apply Help

Step 7: Again right click on the Messages→ Click on New Message, fill up the dialogue box as it shown below under the Messages tab:

Navigator Control Properties

Message | **Body** | Roles | Access | Result

Internal Name NO_MSG

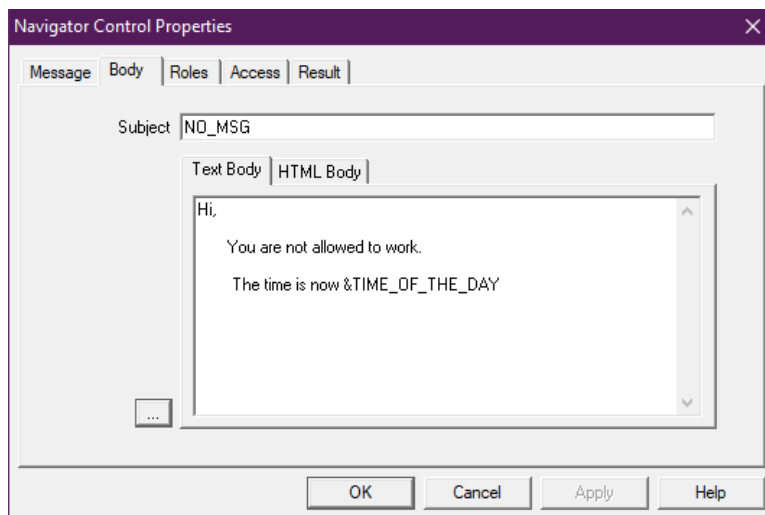
Display Name NO_MSG

Description

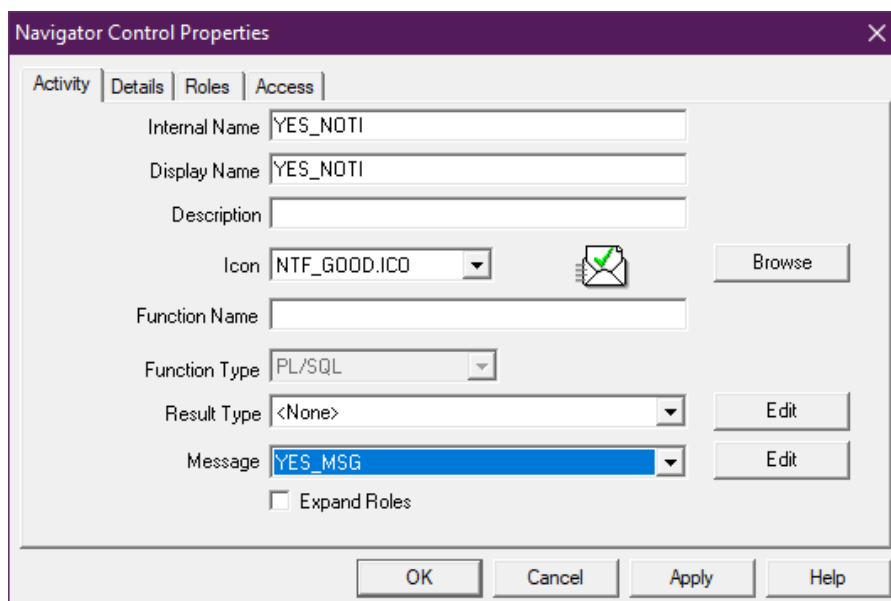
Priority Normal

OK Cancel Apply Help

Step 8: Under the Body tab, fill up with the message under the Text Body as follows:



Step 9: Now we have to Notification for two types. One is for Yes and another one is for No. Right click on Notifications → Click on New Notification. Fill the dialogue box as it is shown under the Activity tab as it is shown below:



Step 10: Again right click on the Notifications → Click on New Notification and add details as following:

Navigator Control Properties

Activity Details Roles Access

Internal Name NO_NOTI

Display Name NO_NOTI

Description

Icon NTF_BAD.ICO Browse

Function Name

Function Type PL/SQL

Result Type <None> Edit

Message NO_MSG Edit

☐ Expand Roles

OK Cancel Apply Help

Step 11: Right Click on Functions→ Click on New Function. Fill the dialogue box as following:

Function name will be as: apps.(Package name).(Procedure name)

Navigator Control Properties

Activity Details Roles Access

Internal Name CHECKTIME

Display Name CHECKTIME

Description

Icon FUNCTION.ICO Browse

Function Name apps.XXCTS_RAJDEEP_TIMESTAMP_PACK.CHE

Function Type PL/SQL

Result Type Yes/No Edit

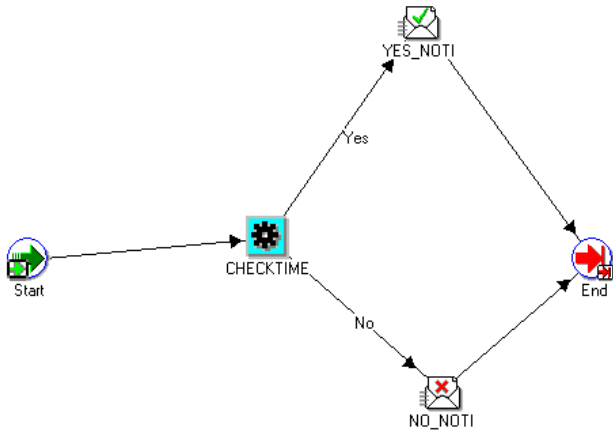
Cost 0.00

OK Cancel Apply Help

Step 12: Drag the CHECKTIME function to the workflow diagram box between the START & END. Drag the YES_NOTI & NO_NOTI in just opposite direction to each other along with the upside and downside position of CHECKTIME respectively. (Shown in the next image)

Connect the nodes in the following order:

START→ CHECKTIME→ One connection goes to YES_NOTI (It will ask to choose yes/no. Choose Yes). Another connection goes to NO_NOTI (It will ask to choose yes/no. Choose No)→ Both from the YES_NOTI & NO_NOTI, the connection will go to the END.



Step 13: Now open Oracle EBS Java Application. Go to System Administrator→ Security→ User → Define. Press 'fn+f11' to start query. Type User Name 'XXCTS_RAJDEEP%' and press 'ctrl + fn+ F11'. (This user is me).

Step 14: Copy the Barleycorn, John X. in the Person input box. This name will be considered as the Performer's name.

Responsibility	Application	Description	Security Group	From	To
Application Developer	Application Object Lib	application develop	Standard	31-MAY-2022	
Workflow Administrator Web	Application Object Lib	Workflow	Standard	10-JUN-2022	
System Administrator	System Administrator	system administrat	Standard	31-MAY-2022	
General Ledger, Vision Oper	General Ledger	general ledger	Standard	31-MAY-2022	
Payables, Vision Operations	Payables	payables	Standard	31-MAY-2022	

Step 15: Go back to Oracle Workflow Builder. Right click on each of the diagram nodes i.e. START, CHECKTIME, YES_NOTI, NO_NOTI, END and then click on each of these node's Properties option. In the coming dialogue box, go the Node tab, go to the Performer section below in the dialogue box and paste the name Barleycorn, John X.

Navigator Control Properties

Function | Details | Roles | Access | Node | Node Attributes

Label: START

Start/End: Start

Comment:

Timeout: Type: No Timeout

Performer: Type: Constant Value: Barleycorn, John X. Edit

OK Cancel Apply Help

Navigator Control Properties

Function | Details | Roles | Access | Node | Node Attributes

Label: CHECKTIME

Start/End: Normal

Comment:

Timeout: Type: No Timeout

Performer: Type: Constant Value: Barleycorn, John X. Edit

OK Cancel Apply Help

Navigator Control Properties

Notification | Details | Roles | Access | Node | Node Attributes

Label: YES_NOTI

Start/End: Normal

Comment:

Timeout: Type: No Timeout

Priority: Type: Default

Performer: Type: Constant Value: Barleycorn, John X. Edit

OK Cancel Apply Help

Navigator Control Properties

Notification | Details | Roles | Access | Node | Node Attributes

Label: NO_NOTI

Start/End: Normal

Comment:

Timeout: Type: No Timeout

Priority: Type: Default

Performer: Type: Constant Value: Barleycorn, John X. Edit

OK Cancel Apply Help

Navigator Control Properties

Function | Details | Roles | Access | Node | Node Attributes

Label: END

Start/End: End Result: Edit

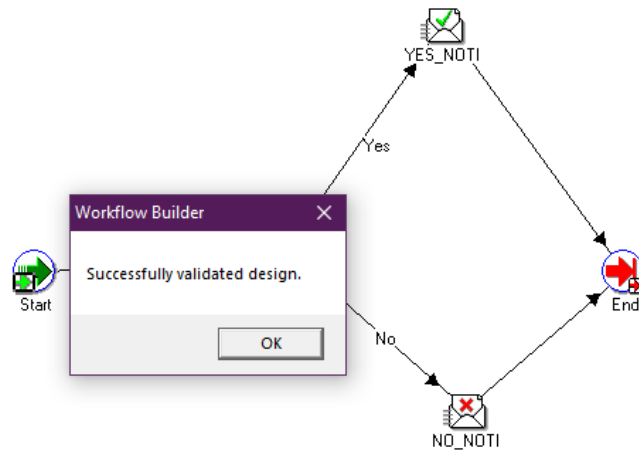
Comment:

Timeout: Type: No Timeout

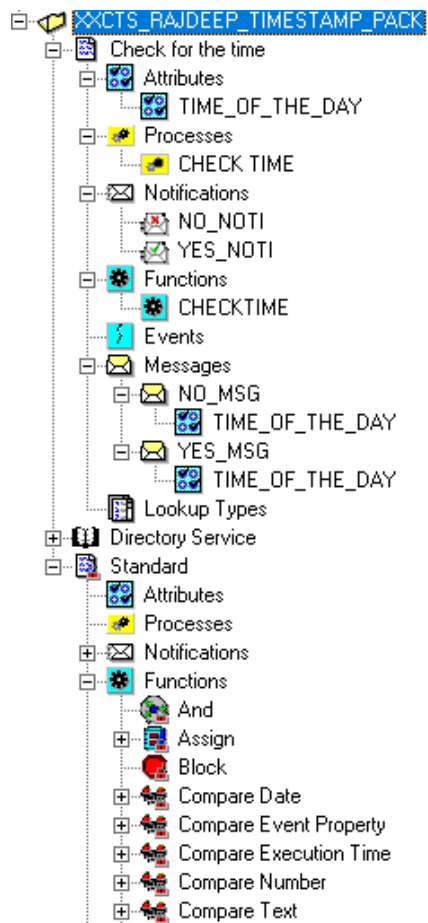
Performer: Type: Constant Value: Barleycorn, John X. Edit

OK Cancel Apply Help

Step 15: Click on the Verify icon the Navigator and checked it is “Successfully Validated Design”.



Step 16: Click on save button. Choose Database option. Given the username, password and database name and saved it. Then it is saved it into the local system.



-----THE END-----