SSN COLLEGE OF ENGINEERING, KALAVAKKAM (An Autonomous Institution, Affiliated to Anna University, Chennai)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

UCS1412 – DBMS Lab Assignment – 8

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Title: Exceptions

Spool File:

```
SET SERVEROUTPUT ON;
SELECT * FROM ITEM_LIST WHERE RNO=18129;
      RNO ORDINAL ITEM
    18129 1 70-TU
DECLARE
   RNO INPUT ITEM LIST.RNO%TYPE;
   CURSOR ITEM_LIST_CURSOR IS SELECT * FROM ITEM_LIST WHERE RNO=RNO_INPUT;
   ITEM_LIST_ROW ITEM_LIST_CURSOR%ROWTYPE;
   RNO INPUT:='&RECEIPT NO INPUT';
   OPEN ITEM_LIST_CURSOR;
   FETCH ITEM LIST CURSOR INTO ITEM LIST ROW;
   CLOSE ITEM LIST CURSOR;
   SELECT * INTO ITEM LIST ROW FROM ITEM LIST WHERE RNO=RNO INPUT;
   DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS EXACTLY ONE ITEM');
EXCEPTION
   WHEN NO_DATA_FOUND THEN
       DBMS_OUTPUT.PUT_LINE('NO ORDER WITH THE GIVEN RECEIPT '||RNO_INPUT);
   WHEN TOO MANY ROWS THEN
       DBMS OUTPUT.PUT LINE('THE GIVEN RECEIPT '||RNO INPUT||' CONTAINS MORE THAN ONE
ITEM');
END;
```

```
old:DECLARE
    RNO INPUT ITEM LIST.RNO%TYPE;
    CURSOR ITEM LIST CURSOR IS SELECT * FROM ITEM LIST WHERE RNO=RNO INPUT;
    ITEM_LIST_ROW ITEM_LIST_CURSOR%ROWTYPE;
    RNO_INPUT:='&RECEIPT_NO_INPUT';
    OPEN ITEM_LIST_CURSOR;
    FETCH ITEM LIST CURSOR INTO ITEM LIST ROW;
    CLOSE ITEM LIST CURSOR;
    SELECT * INTO ITEM_LIST_ROW FROM ITEM_LIST WHERE RNO=RNO INPUT;
    DBMS OUTPUT.PUT LINE('THE GIVEN RECEIPT '|| RNO INPUT|| 'CONTAINS EXACTLY ONE ITEM');
EXCEPTION
    WHEN NO DATA FOUND THEN
        DBMS OUTPUT.PUT LINE('NO ORDER WITH THE GIVEN RECEIPT ' | RNO INPUT);
    WHEN TOO MANY ROWS THEN
        DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS MORE THAN ONE
new:DECLARE
    RNO INPUT ITEM LIST.RNO%TYPE;
    CURSOR ITEM_LIST_CURSOR IS SELECT * FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    ITEM_LIST_ROW ITEM_LIST_CURSOR%ROWTYPE;
    RNO_INPUT:='18129';
    OPEN ITEM LIST CURSOR;
    FETCH ITEM_LIST_CURSOR INTO ITEM_LIST_ROW;
    CLOSE ITEM_LIST_CURSOR;
    SELECT * INTO ITEM_LIST_ROW FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS EXACTLY ONE ITEM');
EXCEPTION
    WHEN NO_DATA_FOUND THEN
        DBMS OUTPUT.PUT LINE('NO ORDER WITH THE GIVEN RECEIPT ' | RNO INPUT);
    WHEN TOO MANY ROWS THEN
        DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS MORE THAN ONE
THE GIVEN RECEIPT 18129 CONTAINS EXACTLY ONE ITEM
PL/SQL procedure successfully completed.
SELECT * FROM ITEM LIST WHERE RNO=85858;
       RNO
             ORDINAL ITEM
                   1 20-CA-7.5
                   2 70-M-VA-SM-DZ
                    3 51-BLU
```

```
DECLARE
    RNO INPUT ITEM LIST.RNO%TYPE;
    CURSOR ITEM LIST CURSOR IS SELECT * FROM ITEM LIST WHERE RNO=RNO INPUT;
    ITEM LIST ROW ITEM LIST CURSOR%ROWTYPE;
    RNO INPUT:='&RECEIPT NO INPUT';
   OPEN ITEM_LIST_CURSOR;
   FETCH ITEM_LIST_CURSOR INTO ITEM_LIST_ROW;
   CLOSE ITEM LIST CURSOR;
    SELECT * INTO ITEM_LIST_ROW FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS EXACTLY ONE ITEM');
EXCEPTION
   WHEN NO DATA FOUND THEN
        DBMS_OUTPUT.PUT_LINE('NO ORDER WITH THE GIVEN RECEIPT ' | RNO_INPUT);
   WHEN TOO MANY ROWS THEN
        DBMS OUTPUT.PUT LINE('THE GIVEN RECEIPT '|| RNO INPUT|| 'CONTAINS MORE THAN ONE
ITEM');
old:DECLARE
    RNO INPUT ITEM LIST.RNO%TYPE;
   CURSOR ITEM_LIST_CURSOR IS SELECT * FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    ITEM_LIST_ROW ITEM_LIST_CURSOR%ROWTYPE;
   RNO_INPUT:='&RECEIPT_NO_INPUT';
   OPEN ITEM_LIST_CURSOR;
   FETCH ITEM_LIST_CURSOR INTO ITEM_LIST_ROW;
   CLOSE ITEM_LIST_CURSOR;
    SELECT * INTO ITEM LIST ROW FROM ITEM_LIST WHERE RNO=RNO_INPUT;
   DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS EXACTLY ONE ITEM');
EXCEPTION
   WHEN NO_DATA_FOUND THEN
        DBMS_OUTPUT.PUT_LINE('NO ORDER WITH THE GIVEN RECEIPT '||RNO_INPUT);
   WHEN TOO MANY ROWS THEN
        DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS MORE THAN ONE
END;
new:DECLARE
   RNO_INPUT ITEM_LIST.RNO%TYPE;
   CURSOR ITEM_LIST_CURSOR IS SELECT * FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    ITEM_LIST_ROW ITEM_LIST_CURSOR%ROWTYPE;
   RNO_INPUT:='85858';
   OPEN ITEM LIST CURSOR;
   FETCH ITEM_LIST_CURSOR INTO ITEM_LIST_ROW;
   CLOSE ITEM_LIST_CURSOR;
    SELECT * INTO ITEM_LIST_ROW FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS EXACTLY ONE ITEM');
```

```
EXCEPTION
    WHEN NO DATA FOUND THEN
        DBMS OUTPUT.PUT LINE('NO ORDER WITH THE GIVEN RECEIPT ' | RNO INPUT);
    WHEN TOO MANY ROWS THEN
        DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS MORE THAN ONE
END:
THE GIVEN RECEIPT 85858 CONTAINS MORE THAN ONE ITEM
PL/SQL procedure successfully completed.
SELECT * FROM ITEM LIST WHERE RNO=11111;
no rows selected
DECLARE
    RNO_INPUT ITEM_LIST.RNO%TYPE;
    CURSOR ITEM_LIST_CURSOR IS SELECT * FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    ITEM LIST ROW ITEM LIST CURSOR%ROWTYPE;
    RNO_INPUT:='&RECEIPT_NO_INPUT';
    OPEN ITEM LIST CURSOR;
    FETCH ITEM LIST CURSOR INTO ITEM LIST ROW;
    CLOSE ITEM_LIST_CURSOR;
    SELECT * INTO ITEM_LIST_ROW FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS EXACTLY ONE ITEM');
EXCEPTION
    WHEN NO_DATA_FOUND THEN
        DBMS_OUTPUT.PUT_LINE('NO ORDER WITH THE GIVEN RECEIPT ' | RNO_INPUT);
    WHEN TOO_MANY_ROWS THEN
        DBMS OUTPUT.PUT LINE('THE GIVEN RECEIPT '|| RNO INPUT|| 'CONTAINS MORE THAN ONE
ITEM');
END;
old:DECLARE
    RNO_INPUT ITEM_LIST.RNO%TYPE;
    CURSOR ITEM_LIST_CURSOR IS SELECT * FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    ITEM_LIST_ROW ITEM_LIST_CURSOR%ROWTYPE;
BEGIN
    RNO_INPUT:='&RECEIPT_NO_INPUT';
    OPEN ITEM_LIST_CURSOR;
    FETCH ITEM_LIST_CURSOR INTO ITEM_LIST_ROW;
    CLOSE ITEM LIST CURSOR;
    SELECT * INTO ITEM_LIST_ROW FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS EXACTLY ONE ITEM');
EXCEPTION
    WHEN NO DATA FOUND THEN
        DBMS_OUTPUT.PUT_LINE('NO ORDER WITH THE GIVEN RECEIPT ' | RNO_INPUT);
    WHEN TOO MANY ROWS THEN
```

```
DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS MORE THAN ONE
END;
new:DECLARE
   RNO INPUT ITEM LIST.RNO%TYPE;
    CURSOR ITEM_LIST_CURSOR IS SELECT * FROM ITEM_LIST WHERE RNO=RNO_INPUT;
    ITEM_LIST_ROW ITEM_LIST_CURSOR%ROWTYPE;
    RNO INPUT:='11111.';
    OPEN ITEM_LIST_CURSOR;
    FETCH ITEM LIST CURSOR INTO ITEM LIST ROW;
    CLOSE ITEM LIST CURSOR;
    SELECT * INTO ITEM LIST ROW FROM ITEM LIST WHERE RNO=RNO INPUT;
    DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS EXACTLY ONE ITEM');
EXCEPTION
    WHEN NO_DATA_FOUND THEN
        DBMS_OUTPUT.PUT_LINE('NO ORDER WITH THE GIVEN RECEIPT ' | RNO INPUT);
    WHEN TOO MANY ROWS THEN
        DBMS_OUTPUT.PUT_LINE('THE GIVEN RECEIPT '||RNO_INPUT||' CONTAINS MORE THAN ONE
NO ORDER WITH THE GIVEN RECEIPT 11111
PL/SQL procedure successfully completed.
SET SERVEROUTPUT ON;
desc receipts;
Name Null? Type
RNO NOT NULL NUMBER
RDATE
              DATE
CID
               NUMBER
CREATE OR REPLACE TRIGGER CHECKINSDATE
BEFORE INSERT ON RECEIPTS FOR EACH ROW
DECLARE
    THROWEXCEPTION EXCEPTION;
    TODAYDATE DATE;
BEGIN
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SELECT SYSDATE INTO TODAYDATE FROM DUAL;
    IF(:NEW.RDATE>TODAYDATE) THEN
        RAISE THROWEXCEPTION;
    END IF;
EXCEPTION
    WHEN THROWEXCEPTION THEN
        RAISE_APPLICATION_ERROR(-20009, 'RECEIPT DATE GREATER THAN TODAYDATE');
END;
Trigger CHECKINSDATE compiled
INSERT INTO RECEIPTS VALUES(11111, '22-May-2023', 10);
Error starting at line : 21 in command -
INSERT INTO RECEIPTS VALUES(11111, '22-May-2023',10)
Error report -
ORA-20009: RECEIPT DATE GREATER THAN TODAYDATE
ORA-06512: at "SYSTEM.CHECKINSDATE", line 12
ORA-04088: error during execution of trigger 'SYSTEM.CHECKINSDATE'
INSERT INTO RECEIPTS VALUES(11111, '25-May-2022', 10);
Error starting at line : 22 in command -
INSERT INTO RECEIPTS VALUES(11111, '25-May-2022', 10)
Error report -
ORA-00001: unique constraint (SYSTEM.RNO_PKEY) violated
```