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**UCS1412 – DBMS Lab**

**Assignment – 8**

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**Title:** Exceptions

**Spool File:**

SET SERVEROUTPUT ON;

*-- Write a PL/SQL block to handle the following exceptions:*

*-- 1. For the given receipt number, if there are no rows then display as “No order with the*

*-- given receipt <number>”. If the receipt contains more than one item, display as*

*-- “The given receipt <number> contains more than one item”. If the receipt contains*

*-- single item, display as “The given receipt <number> contains exactly one item”. Use*

*-- predefined exception handling.*

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;

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 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 ITEM');

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;

BEGIN

    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 ITEM');

END;

THE GIVEN RECEIPT 18129 CONTAINS EXACTLY ONE ITEM

PL/SQL procedure successfully completed.

SELECT \* FROM ITEM\_LIST WHERE RNO=85858;

       RNO    ORDINAL ITEM

*---------- ---------- ---------------*

     85858          1 20-CA-7.5

     85858          2 70-M-VA-SM-DZ

     85858          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;

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 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 ITEM');

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;

BEGIN

    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 ITEM');

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;

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 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 ITEM');

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;

BEGIN

    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 ITEM');

END;

NO ORDER WITH THE GIVEN RECEIPT 11111

PL/SQL procedure successfully completed.

*-- 2. While inserting the receipt details, raise an exception when the receipt date is greater*

*-- than the current date.*

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

    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