Exercise # 7

1) Write a procedure to fetch data from table SALES for a given parameter sales date and display all the data(Hint: use Explicit cursors and ROWTYPE)

2) Write a procedure to fetch data from table SALES for a given parameter sales date and display all the data(Hint: use Cursor FOR loop)

3) Write a procedure to fetch data from table SALES for a given parameter sales date and pass that cursor to another program.

   Write another procedure which calls the above procedure and displays the data.

Answers

1)

```
CREATE OR REPLACE  PROCEDURE  FETCH_SALES_CUR  (S_DATE DATE)
AS

    CURSOR SALE_CURSOR
       IS
       SELECT SALES_DATE, ORDER_ID,  PRODUCT_ID,  CUSTOMER_ID,  SALESPERSON_ID,  QUANTITY,
UNIT_PRICE,  SALES_AMOUNT, TAX_AMOUNT, TOTAL_AMOUNT
       FROM SALES
       WHERE  SALES_DATE = S_DATE;

SALE_REC SALES%ROWTYPE;

BEGIN
   OPEN SALE_CURSOR;

   LOOP
    FETCH SALE_CURSOR  INTO  SALE_REC;
   EXIT WHEN SALE_CURSOR%NOTFOUND;
        DBMS_OUTPUT.PUT_LINE  (SALE_REC.SALES_DATE);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.ORDER_ID);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.PRODUCT_ID);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.CUSTOMER_ID);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.SALESPERSON_ID);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.QUANTITY);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.UNIT_PRICE);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.SALES_AMOUNT);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.TAX_AMOUNT);
       DBMS_OUTPUT.PUT_LINE  (SALE_REC.TOTAL_AMOUNT);
   END LOOP;

   CLOSE SALE_CURSOR;

END;


EXEC FETCH_SALES_CUR  (TO_DATE('01-JAN-2015','DD-MON-YYYY'));
```

2)

```
CREATE OR REPLACE PROCEDURE FETCH_SALES_CURLOOP (S_DATE DATE)
AS
BEGIN

FOR SALE_REC IN
   ( SELECT SALES_DATE, ORDER_ID, PRODUCT_ID, CUSTOMER_ID, SALESPERSON_ID, QUANTITY,
UNIT_PRICE, SALES_AMOUNT, TAX_AMOUNT, TOTAL_AMOUNT
     FROM SALES
     WHERE SALES_DATE = S_DATE
     )
 LOOP
    DBMS_OUTPUT.PUT_LINE (SALE_REC.SALES_DATE);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.ORDER_ID);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.PRODUCT_ID);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.CUSTOMER_ID);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.SALESPERSON_ID);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.QUANTITY);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.UNIT_PRICE);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.SALES_AMOUNT);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.TAX_AMOUNT);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.TOTAL_AMOUNT);
 END LOOP;

END;


EXEC FETCH_SALES_CURLOOP (TO_DATE('01-JAN-2015','DD-MON-YYYY'));
```

3)

```
CREATE OR REPLACE PROCEDURE SEND_SALES_REF (S_DATE DATE, SALES_CUR OUT
SYS_REFCURSOR)
AS
BEGIN

OPEN SALES_CUR FOR
   SELECT SALES_DATE, ORDER_ID,  PRODUCT_ID,  CUSTOMER_ID,  SALESPERSON_ID,  QUANTITY,
UNIT_PRICE,  SALES_AMOUNT, TAX_AMOUNT, TOTAL_AMOUNT
     FROM SALES
     WHERE SALES_DATE = S_DATE;

END;


CREATE OR REPLACE PROCEDURE GET_SALES_REF (S_DATE DATE)
AS
S_REC_CURSER SYS_REFCURSOR;
SALE_REC SALES%ROWTYPE;
BEGIN

SEND_SALES_REF (S_DATE, S_REC_CURSER);

  LOOP
   FETCH S_REC_CURSER INTO SALE_REC;
   EXIT WHEN S_REC_CURSER%NOTFOUND;
     DBMS_OUTPUT.PUT_LINE (SALE_REC.SALES_DATE);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.ORDER_ID);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.PRODUCT_ID);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.CUSTOMER_ID);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.SALESPERSON_ID);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.QUANTITY);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.UNIT_PRICE);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.SALES_AMOUNT);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.TAX_AMOUNT);
     DBMS_OUTPUT.PUT_LINE (SALE_REC.TOTAL_AMOUNT);
  END LOOP;

    CLOSE S_REC_CURSER;

END;


EXEC GET_SALES_REF (TO_DATE('01-JAN-2015','DD-MON-YYYY'));
```