Exercise # 6

- 1) Write a procedure to fetch data from table SALES for a given parameter orderid and display the data(use ROWTYPE to capture the data)
- 2) Modify the above procedure to return the row you have stored in the ROWTYPE variable using an OUT parameter.
- 3) Write a procedure to call the above procedure and display the data.
- 4) Perform the following steps.
 - Create a table SALES COPY which is similar to SALES table.
 - Write a procedure to call the procedure you have created in #2 and insert the data in the SALES_COPY table.
- 5) Write a procedure to call the procedure you have created in #2 and update the column TOTAL_AMOUNT to SALES_AMOUNT + TAX_AMOUNT in the SALES table.
- 6) Write a procedure to fetch SALES_DATE, ORDER_ID, PRODUCT_ID, CUSTOMER_ID and QUANTITY from SALES table and display the data. (Use a User defined record type).

Answers

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1)
CREATE OR REPLACE PROCEDURE FETCH_SALES (S_ORDERID NUMBER)
AS
SALE REC SALES%ROWTYPE;
BEGIN
SELECT SALES_DATE, ORDER_ID, PRODUCT_ID, CUSTOMER_ID, SALESPERSON_ID, QUANTITY,
UNIT_PRICE, SALES_AMOUNT, TAX_AMOUNT, TOTAL_AMOUNT
INTO
SALE_REC
FROM SALES
WHERE ORDER_ID = S_ORDERID;
 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);
EXCEPTION
 WHEN NO_DATA_FOUND THEN
  DBMS_OUTPUT.PUT_LINE('No such Order!');
 WHEN TOO_MANY_ROWS THEN
  DBMS_OUTPUT.PUT_LINE('You got more than 1 row!');
 WHEN OTHERS THEN
  DBMS_OUTPUT.PUT_LINE('Error!');
END;
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2)
CREATE OR REPLACE PROCEDURE FETCH SALES (S ORDERID NUMBER, S REC OUT
SALES%ROWTYPE)
AS
SALE_REC SALES%ROWTYPE;
BEGIN
SELECT SALES DATE, ORDER ID, PRODUCT ID, CUSTOMER ID, SALESPERSON ID, QUANTITY,
UNIT_PRICE, SALES_AMOUNT, TAX_AMOUNT, TOTAL_AMOUNT
INTO
SALE REC
FROM SALES
WHERE ORDER_ID = S_ORDERID;
S_REC := SALE_REC;
EXCEPTION
 WHEN NO DATA FOUND THEN
  DBMS_OUTPUT.PUT_LINE('No such Order!');
 WHEN TOO MANY ROWS THEN
  DBMS_OUTPUT.PUT_LINE('You got more than 1 row!');
 WHEN OTHERS THEN
  DBMS_OUTPUT.PUT_LINE('Error!');
END;
3)
CREATE OR REPLACE PROCEDURE GET_SALES (S_ORD NUMBER)
SLE REC SALES%ROWTYPE;
BEGIN
FETCH_SALES (S_ORD, SLE_REC);
 DBMS_OUTPUT.PUT_LINE (SLE_REC.SALES_DATE);
 DBMS_OUTPUT.PUT_LINE (SLE_REC.ORDER_ID);
 DBMS_OUTPUT.PUT_LINE (SLE_REC.PRODUCT_ID);
 DBMS_OUTPUT.PUT_LINE (SLE_REC.CUSTOMER_ID);
 DBMS_OUTPUT.PUT_LINE (SLE_REC.SALESPERSON_ID);
 DBMS_OUTPUT.PUT_LINE (SLE_REC.QUANTITY);
 DBMS_OUTPUT.PUT_LINE (SLE_REC.UNIT_PRICE);
 DBMS OUTPUT.PUT LINE (SLE REC.SALES AMOUNT);
 DBMS_OUTPUT.PUT_LINE (SLE_REC.TAX_AMOUNT);
 DBMS OUTPUT.PUT LINE (SLE REC.TOTAL AMOUNT);
END;
EXEC GET SALES (1269);
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4)
CREATE TABLE SALES COPY AS
SELECT * FROM SALES WHERE 1 = 2;
CREATE OR REPLACE PROCEDURE INSERT_SALES (S_ORD NUMBER)
AS
SLE REC SALES%ROWTYPE;
BEGIN
FETCH_SALES (S_ORD, SLE_REC);
INSERT INTO SALES_COPY VALUES (
 SLE_REC.SALES_DATE,
 SLE REC.ORDER ID,
 SLE_REC.PRODUCT_ID,
 SLE_REC.CUSTOMER_ID,
 SLE_REC.SALESPERSON_ID,
 SLE_REC.QUANTITY,
 SLE_REC.UNIT_PRICE,
 SLE_REC.SALES_AMOUNT,
 SLE_REC.TAX_AMOUNT,
 SLE_REC.TOTAL_AMOUNT
 );
 COMMIT;
END;
EXEC INSERT_SALES (1268);
5)
CREATE OR REPLACE PROCEDURE UPDATE_SALES (S_ORD NUMBER)
AS
SLE_REC SALES%ROWTYPE;
BEGIN
FETCH_SALES (S_ORD, SLE_REC);
UPDATE SALES SET TOTAL_AMOUNT = SLE_REC.SALES_AMOUNT + SLE_REC.TAX_AMOUNT
WHERE ORDER_ID = S_ORD;
 COMMIT;
END;
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EXEC UPDATE_SALES (1268);

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6)
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CREATE OR REPLACE PROCEDURE FETCH SALES USER (S ORDERID NUMBER)
AS
 TYPE SALES INFO REC IS RECORD
 SALES DATE SALES. SALES DATE%TYPE,
 ORDER_ID SALES.ORDER_ID%TYPE,
 PRODUCT_ID SALES.PRODUCT_ID%TYPE,
 CUSTOMER ID SALES.CUSTOMER ID%TYPE,
 QUANTITY SALES.QUANTITY%TYPE
 );
SALE_REC SALES_INFO_REC;
BEGIN
SELECT SALES_DATE, ORDER_ID, PRODUCT_ID, CUSTOMER_ID, QUANTITY
INTO
SALE_REC
FROM SALES
WHERE ORDER_ID = S_ORDERID;
 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.QUANTITY);
EXCEPTION
 WHEN NO_DATA_FOUND THEN
  DBMS_OUTPUT.PUT_LINE('No such Order!');
 WHEN TOO_MANY_ROWS THEN
  DBMS_OUTPUT.PUT_LINE('You got more than 1 row!');
 WHEN OTHERS THEN
  DBMS_OUTPUT.PUT_LINE('Error!');
END;
EXEC FETCH_SALES_USER(1268);
```