ST10443512  
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GROUP3

# Answer

CREATE TABLE CUSTOMERS (

CUSTOMER\_ID NUMBER PRIMARY KEY,

FIRST\_NAME VARCHAR2(50),

SURNAME VARCHAR2(50),

EMAIL VARCHAR2(100)

);

CREATE TABLE PETS (

PET\_ID NUMBER PRIMARY KEY,

PET\_TYPE VARCHAR2(50),

PET\_PRICE NUMBER,

PET\_STOCK\_LEVEL NUMBER

);

CREATE TABLE PET\_SALES (

SALES\_ID VARCHAR2(20) PRIMARY KEY,

SALES\_DATE DATE,

SALES\_QUANTITY NUMBER,

PET\_ID NUMBER,

CUSTOMER\_ID NUMBER,

FOREIGN KEY (PET\_ID) REFERENCES PETS(PET\_ID),

FOREIGN KEY (CUSTOMER\_ID) REFERENCES CUSTOMERS(CUSTOMER\_ID)

);

INSERT INTO CUSTOMERS VALUES (1001, 'Patrick', 'Smith', 'ps@yahoo.com');

INSERT INTO CUSTOMERS VALUES (1002, 'Steven', 'Hewson', 'shew@gmail.com');

INSERT INTO CUSTOMERS VALUES (1003, 'Barry', 'Goodwin', 'barry@isat.co.za');

INSERT INTO PETS VALUES (111, 'Dog - Jack Russel', 900, 5);

INSERT INTO PETS VALUES (112, 'Cat - Persian', 700, 3);

INSERT INTO PETS VALUES (113, 'Bird - Budgie', 190, 8);

INSERT INTO PET\_SALES VALUES ('Sale\_101', TO\_DATE('15-03-2020', 'DD-MM-YYYY'), 2, 111, 1003);

INSERT INTO PET\_SALES VALUES ('Sale\_102', TO\_DATE('17-03-2020', 'DD-MM-YYYY'), 1, 112, 1003);

INSERT INTO PET\_SALES VALUES ('Sale\_103', TO\_DATE('19-03-2020', 'DD-MM-YYYY'), 1, 112, 1001);

INSERT INTO PET\_SALES VALUES ('Sale\_104', TO\_DATE('20-03-2020', 'DD-MM-YYYY'), 3, 113, 1002);

COMMIT;

SET SERVEROUTPUT ON;

BEGIN

FOR rec IN (

SELECT c.first\_name || ' ' || c.surname AS customer\_name,

p.pet\_type,

s.sales\_quantity

FROM PET\_SALES s

JOIN CUSTOMERS c ON s.customer\_id = c.customer\_id

JOIN PETS p ON s.pet\_id = p.pet\_id

WHERE s.sales\_quantity > 1

) LOOP

DBMS\_OUTPUT.PUT\_LINE('Customer: ' || rec.customer\_name ||

' | Pet: ' || rec.pet\_type ||

' | Quantity: ' || rec.sales\_quantity);

SET SERVEROUTPUT ON;

BEGIN

FOR rec IN (

SELECT c.first\_name || ' ' || c.surname AS customer\_name,

SUM(p.pet\_price \* s.sales\_quantity) AS total\_spent,

CASE

WHEN SUM(p.pet\_price \* s.sales\_quantity) >= 1000

THEN ' Star Customer'

ELSE 'No Rating'

END AS customer\_rating

FROM PET\_SALES s

JOIN CUSTOMERS c ON s.customer\_id = c.customer\_id

JOIN PETS p ON s.pet\_id = p.pet\_id

GROUP BY c.first\_name, c.surname

) LOOP

DBMS\_OUTPUT.PUT\_LINE('Customer: ' || rec.customer\_name ||

' | Total Spent: R' || rec.total\_spent ||

' | Rating: ' || rec.customer\_rating);

END LOOP;

END;

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