SQL Exercises

Based on the SQL script file for Pine Valley Furniture Company, write the SQL statements for the following queries.

**1. What are the names of all customers who have placed orders?**

SELECT C.Customer\_Name FROM S\_CUSTOMER\_t C, S\_ORDER\_t O WHERE C.Customer\_Id = O.Customer\_Id;

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**2. What are the product descriptions ordered by the customer ID, 1?**

SELECT P.Product\_Description

FROM S\_PRODUCT\_t P JOIN S\_Order\_Line\_t OL ON P.Product\_Id = OL.Product\_Id

WHERE OL.Order\_Id IN (SELECT Order\_Id FROM S\_ORDER\_t WHERE Customer\_Id = 1);

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**3. What are the product descriptions ordered by the customer, ‘Impressions’?**

SELECT P.Product\_Description

FROM S\_PRODUCT\_t P, S\_Order\_Line\_t OL, S\_ORDER\_t O, S\_CUSTOMER\_t C

WHERE P.Product\_Id = OL.Product\_Id

AND OL.Order\_Id = O.Order\_Id

AND O.Customer\_Id = C.Customer\_Id

AND C.Customer\_Name = 'Impressions';

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**4. List all customers’ names that have placed an order that contains a product whose standard price is over 500.**

SELECT DISTINCT C.Customer\_Name

FROM S\_CUSTOMER\_t C, S\_ORDER\_t O, S\_Order\_Line\_t OL, S\_PRODUCT\_t P

WHERE C.Customer\_Id = O.Customer\_Id

AND O.Order\_Id = OL.Order\_Id

AND OL.Product\_Id = P.Product\_Id

AND P.Standard\_Price > 500;

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**5. List all customers. Print the order ID (s) along the customer information if they have submitted the order(s).**

SELECT C.Customer\_Id, C.Customer\_Name, C.Customer\_Address, C.Customer\_City, C.Customer\_State, C.Postal\_Code, O.Order\_Id

FROM S\_CUSTOMER\_t C, S\_ORDER\_t O

WHERE C.Customer\_Id = O.Customer\_Id;

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**6. Display the subtotal amount of each orderline in each order**

SELECT OL.Order\_Id, OL.Product\_Id, OL.Ordered\_Quantity,

(OL.Ordered\_Quantity \* (SELECT Standard\_Price FROM S\_PRODUCT\_t P WHERE P.Product\_Id = OL.Product\_Id)) AS Subtotal

FROM S\_Order\_Line\_t OL;

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**7. Display the total amount of each order**

SELECT O.Order\_Id, (SELECT SUM(OL.Ordered\_Quantity \* (SELECT Standard\_Price FROM S\_PRODUCT\_t P WHERE P.Product\_Id = OL.Product\_Id))

FROM S\_Order\_Line\_t OL

WHERE OL.Order\_Id = O.Order\_Id) AS Total

FROM S\_ORDER\_t O;

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