Homework
From: Task 1-12

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-- TASK 1 Untitled-1 ●
1    -- TASK 1
2    SELECT *FROM TBLPRODUCTS;
3    CREATE VIEW QPRODUCTS AS SELECT *FROM TBLPRODUCTS;
4
5    -- TASK 2
6    SELECT *FROM TBLSUPPLIERS;
7    SELECT SUP_NAME , LOCATION,PHONE FROM TBLSUPPLIERS;
8
9    -- TASK 3
10   SELECT P_CODE, P_NAME, QTY,PRICE FROM TBLPRODUCTS;
11
12   -- TASK 4
13   SELECT *FROM TBLCATEGORIES;
14   INSERT ALL
15     INTO TBLCATEGORIES (CAT_ID, CATEGORY, DESCRIPTION) VALUES ('C001', 'Electronics', 'Devices like phones')
16     INTO TBLCATEGORIES (CAT_ID, CATEGORY, DESCRIPTION) VALUES ('C002', 'Groceries', 'Food items')
17     INTO TBLCATEGORIES (CAT_ID, CATEGORY, DESCRIPTION) VALUES ('C003', 'Books', 'Educational books')
18     INTO TBLCATEGORIES (CAT_ID, CATEGORY, DESCRIPTION) VALUES ('C004', 'Drink', 'Juice, Milk, Bverages')
19     INTO TBLCATEGORIES (CAT_ID, CATEGORY, DESCRIPTION) VALUES ('C005', 'Furniture', 'Tables, chairs, and other home furniture')
20   SELECT 1 FROM dual; -- The SELECT 1 FROM dual is mandatory for INSERT ALL
21   INSERT ALL
22     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P001', '8712345678932', 'Fresh Milk (1L)', 200, 1.80, 'C004') -- Drink
23     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P002', '0012345678929', 'Yogurt (500g)', 150, 2.50, 'C002') -- Groceries
24     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P003', '4006381333955', 'USB Flash Drive (64GB)', 300, 12.99, 'C001') -- Small Electronic
25     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P004', '8712345678949', 'Soy Milk (1L)', 100, 2.00, 'C004') -- Drink
26     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P005', '6012345000015', 'Folding Chair', 70, 25.00, 'C005') -- Small Furniture
27     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P006', '4006381333962', 'Bluetooth Earbuds', 220, 45.00, 'C001') -- Small Electronic
28     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P007', '0012345678936', 'Eggs (Dozen)', 180, 4.00, 'C002') -- Groceries
29     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P008', '8712345678956', 'Bottled Water (500ml, 6-pack)', 250, 3.50, 'C004') -- Drink
30     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P009', '6012345000022', 'Small Coffee Table', 45, 55.00, 'C005') -- Small Furniture
31     INTO TBLPRODUCTS (P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID) VALUES ('P010', '4006381333979', 'Portable Power Bank', 180, 29.99, 'C001') -- Small Electronic
32   SELECT 1 FROM dual;
33
34   -- Task 5
35   SELECT P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID FROM TBLPRODUCTS
36   ORDER BY QTY DESC;
37
38   -- Task 6
39   INSERT ALL
40     INTO TBLSUPPLIERS (SUP_ID, SUP_NAME, LOCATION, PHONE) VALUES ('S001', 'Phnom Penh Fresh Mart Co.', 'Phnom Penh', '012 345 678')
41     INTO TBLSUPPLIERS (SUP_ID, SUP_NAME, LOCATION, PHONE) VALUES ('S002', 'Phnom Penh Tech Solutions', 'Phnom Penh', '077 123 456')
42     INTO TBLSUPPLIERS (SUP_ID, SUP_NAME, LOCATION, PHONE) VALUES ('S003', 'Phnom Penh Furnishings Ltd.', 'Phnom Penh', '096 789 012')
43     INTO TBLSUPPLIERS (SUP_ID, SUP_NAME, LOCATION, PHONE) VALUES ('S004', 'Phnom Penh Beverages Co.', 'Phnom Penh', '088 234 567')
44     INTO TBLSUPPLIERS (SUP_ID, SUP_NAME, LOCATION, PHONE) VALUES ('S005', 'Phnom Penh Agri-Supply', 'Phnom Penh', '010 345 678')
45     INTO TBLSUPPLIERS (SUP_ID, SUP_NAME, LOCATION, PHONE) VALUES ('S006', 'Capital Electronics Hub', 'Phnom Penh', '092 876 543')
46     INTO TBLSUPPLIERS (SUP_ID, SUP_NAME, LOCATION, PHONE) VALUES ('S007', 'Phnom Penh Home Goods', 'Phnom Penh', '078 543 210')
47   SELECT 1 FROM dual;
48
49   -- Task 7
50   SELECT P_ID, P_CODE, P_NAME, QTY, PRICE, CAT_ID FROM TBLPRODUCTS WHERE QTY < 10;
51
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```sql
-- Task 8
SELECT
    p.P_ID,
    p.P_CODE,
    p.P_NAME,
    p.QTY,
    p.PRICE,
    c.CATEGORY,
    c.DESCRIPTION
FROM
    TBLPRODUCTS p
JOIN
    TBLCATEGORIES c ON p.CAT_ID = c.CAT_ID
WHERE
    p.QTY > 20 and c.DESCRIPTION LIKE '%Milk%';


-- Task 9
SELECT *FROM TBLINVOICES WHERE INVOICE_DATE = '01-12-2025';

-- TASK 10
SELECT
    SB.USR_ID,          -- Comma added here
    S.SUP_NAME,
    SB.INVOICE_NO,
    SPI.P_ID,
    SPI.QTY,
    SPI.PRICE_IN
FROM
    TBLSUPPLYBY SB
INNER JOIN TBLSUPPLIERS S
    ON S.SUP_ID = SB.SUP_ID
INNER JOIN TBLSUPPLIES_ITEM SPI
    ON SB.SUBY_ID = SPI.SUBY_ID
    WHERE SB.SUP_DATE = '12-05-2025';

-- TASK 11

SELECT
    SB.USR_ID,          -- Comma added here
    S.SUP_NAME,
    SB.INVOICE_NO,
    P.P_NAME,
    SPI.QTY,
    SPI.PRICE_IN
FROM
    TBLSUPPLYBY SB
INNER JOIN TBLSUPPLIERS S
    ON S.SUP_ID = SB.SUP_ID
INNER JOIN TBLSUPPLIES_ITEM SPI
    ON SB.SUBY_ID = SPI.SUBY_ID
INNER JOIN TBLPRODUCTS P
    ON SPI.P_ID = P.P_ID
    WHERE S.SUP_NAME ='Phnom Penh Beverages Co.' AND SB.SUP_DATE = '12-20-2025';
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103    INNER JOIN TBLPRODUCTS P
104        ON SPI.P_ID = P.P_ID
105        WHERE S.SUP_NAME ='Phnom Penh Beverages Co.' AND SB.SUP_DATE = '12-20-2025';
106
107
108    -- TASK 12
109    SELECT
110        SB.USR_ID,
111        S.SUP_NAME,
112        SB.INVOICE_NO,
113        P.P_NAME,
114        SPI.QTY,
115        SPI.PRICE_IN
116    FROM
117        TBLSUPPLYBY SB
118    INNER JOIN TBLSUPPLIERS S
119        ON S.SUP_ID = SB.SUP_ID
120    INNER JOIN TBLSUPPLIES_ITEM SPI
121        ON SB.SUBY_ID = SPI.SUBY_ID
122    INNER JOIN TBLPRODUCTS P
123        ON SPI.P_ID = P.P_ID
124    WHERE
125        S.SUP_NAME = :input_supplier_name
126        AND SB.SUP_DATE = TO_DATE(:input_supply_date, 'DD-MM-YYYY');
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133
```