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CREATE SCHEMA WORMS;

SELECT * INTO DATA145DB.WORMS.BUYER FROM STARTERDB.WORMS.BUYER;

SELECT * INTO DATA145DB.WORMS.DEPOSIT FROM STARTERDB.WORMS.DEPOSIT;

SELECT * INTO DATA145DB.WORMS.MATERIAL FROM STARTERDB.WORMS.MATERIAL;

SELECT * INTO DATA145DB.WORMS.PURCHASE FROM STARTERDB.WORMS.PURCHASE;

SELECT * INTO DATA145DB.WORMS.SITE FROM STARTERDB.WORMS.SITE;
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--1

```
SELECT P.BUYER_NUM AS Buyer, P.MAT_ID, MAT_NAME AS Material,
       PURCH_DATE AS "Purchase Date",
       FORMAT((PURCH_PRICE * PURCH_QTY), 'C') AS "Current Purchase",
       FORMAT(totalPurch, 'C') AS "All Buyer Purchases",
       ROUND((PURCH_QTY * PURCH_PRICE / totalPurch) * 100,3) AS "Percent of All"
FROM WORMS.BUYER B RIGHT JOIN WORMS.PURCHASE P ON B.BUYER_NUM=P.BUYER_NUM
     RIGHT JOIN WORMS.MATERIAL M ON M.MAT_ID=P.MAT_ID JOIN
     (SELECT SUM (PURCH_PRICE * PURCH_QTY) AS totalPurch,BUYER_NUM
      FROM WORMS.PURCHASE
      GROUP BY BUYER_NUM) AS tP on tP.BUYER_NUM=B.BUYER_NUM
ORDER BY totalPurch DESC, P.BUYER_NUM ASC, (PURCH_PRICE * PURCH_QTY) DESC;
```

--2

```
SELECT M.MAT_ID AS Mat_ID, MAT_NAME AS Material,
       COUNT(DISTINCT DEP_DATE) AS "Num Deposits",
       COUNT (DISTINCT PURCH_NUM) AS "Num Purchases"
FROM WORMS.PURCHASE P RIGHT JOIN WORMS.MATERIAL M
     ON P.MAT_ID= M.MAT_ID LEFT JOIN
     WORMS.DEPOSIT D ON M.MAT_ID=D.MAT_ID
GROUP BY M.MAT_ID, MAT_NAME
ORDER BY "Num Purchases" DESC, "Num Deposits" DESC;
```

--3

```
SELECT M.MAT_ID AS "Material ID", MAT_NAME AS "Material Name",
       CONCAT ( depttotal, ' tons') AS "Deposit Total"
       FROM (SELECT SUM(DEP_QTY) AS depttotal, M.MAT_ID
             FROM WORMS.SITE S JOIN WORMS.DEPOSIT D ON S.SITE_NUM=D.SITE_NUM
             JOIN WORMS.MATERIAL M ON M.MAT_ID=D.MAT_ID
             WHERE UPPER(SITE_CITY) LIKE '%micklin%' and SITE_STATE LIKE 'TN'
             GROUP BY M.MAT_ID)
       AS MDS JOIN WORMS.MATERIAL M ON MDS.MAT_ID = M.MAT_ID
ORDER BY depttotal DESC;
```

--4

```
SELECT PURCH_NUM AS "Purchase Number",
       CONCAT (MAT_NAME, ' (' , MAT_TYPE, ') ') AS "Material",
       FORMAT( PURCH_DATE, 'MM/dd/yyyy') AS "Purchase Date",
       PURCH_QTY AS "Quantity Sold",
       FORMAT (PURCH_PRICE, 'C') AS "Price Per Ton",
       FORMAT (PURCH_QTY * PURCH_PRICE, 'C') AS "Total Sale"
FROM WORMS.PURCHASE P JOIN WORMS.MATERIAL M ON P.MAT_ID=M.MAT_ID
     JOIN WORMS.DEPOSIT D ON D.MAT_ID=M.MAT_ID
GROUP BY PURCH_NUM, PURCH_QTY, PURCH_PRICE, MAT_NAME, MAT_TYPE, PURCH_DATE
HAVING (PURCH_QTY * PURCH_PRICE) > 150000
ORDER BY "Total Sale" DESC
```

```
SELECT *
FROM WORMS.PURCHASE P JOIN WORMS.MATERIAL M ON P.MAT_ID=M.MAT_ID
     JOIN WORMS.DEPOSIT D ON D.MAT_ID=M.MAT_ID
```