```sql
--0

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;

--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 Purcahases",
 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;
```

```sql
--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
```