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```sql
---1
SELECT
    orderid,
    orderdate,
    val,
    ROW_NUMBER() OVER (ORDER BY orderdate) AS rowno
FROM
    Sales.OrderValues;


---soal 2
SELECT
    orderid,
    orderdate,
    val,
    ROW_NUMBER() OVER (ORDER BY orderdate) AS rowno,
    RANK() OVER (ORDER BY orderdate) AS rankno
FROM
    Sales.OrderValues;

---soal 4
SELECT
    orderid,
    orderdate,
    custid,
    val,
    RANK() OVER (PARTITION BY custid ORDER BY val DESC) AS orderrankno
FROM
    Sales.OrderValues;


---soal 7
WITH OrderRows AS (
    SELECT
        orderid,
        orderdate,
        val,
        ROW_NUMBER() OVER (ORDER BY orderdate, orderid) AS rowno
    FROM
        Sales.OrderValues
)
SELECT * FROM OrderRows;


---soal 8
WITH OrderRows AS (
    SELECT
        orderid,
        orderdate,
        val,
        ROW_NUMBER() OVER (ORDER BY orderdate, orderid) AS rowno
    FROM
        Sales.OrderValues
)
SELECT
    currentRow.orderid,
    currentRow.orderdate,
```

```sql
    currentRow.val,
    previousRow.val AS prevval,
    (currentRow.val - previousRow.val) AS diffprev
FROM
    OrderRows AS currentRow
LEFT JOIN
    OrderRows AS previousRow ON currentRow.rowno = previousRow.rowno + 1;


---soal 9
SELECT
    orderid,
    orderdate,
    val,
    LAG(val) OVER (ORDER BY orderdate, orderid) AS prevval,
    (val - LAG(val) OVER (ORDER BY orderdate, orderid)) AS diffprev
FROM
    Sales.OrderValues;


---soal 12
SELECT
    custid,
    orderid,
    orderdate,
    val,
    (val * 100.0 / SUM(val) OVER (PARTITION BY custid)) AS percoftotalcust
FROM
    Sales.OrderValues;
```