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Kelas/Absen: TI – 2D / 21

# Tugas Latihan

1. Tampilkan running total untuk pendapatan harian di tahun 2007 bulan 5 saja.

### Jawab:

```
SELECT orderdate, income, SUM(income) OVER (ORDER BY orderdate) AS
runningtotals
FROM Sales.DailyIncome WHERE YEAR(orderdate) = 2007 AND MONTH(orderdate) =
5;
```

## Output:

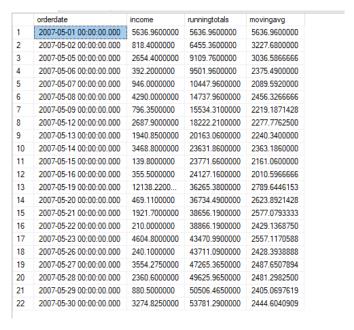
	orderdate	income	runningtotals
1	2007-05-01 00:00:00.000	5636.9600000	5636.9600000
2	2007-05-02 00:00:00.000	818.4000000	6455.3600000
3	2007-05-05 00:00:00.000	2654.4000000	9109.7600000
4	2007-05-06 00:00:00.000	392.2000000	9501.9600000
5	2007-05-07 00:00:00.000	946.0000000	10447.9600000
6	2007-05-08 00:00:00.000	4290.0000000	14737.9600000
7	2007-05-09 00:00:00.000	796.3500000	15534.3100000
8	2007-05-12 00:00:00.000	2687.9000000	18222.2100000
9	2007-05-13 00:00:00.000	1940.8500000	20163.0600000
10	2007-05-14 00:00:00.000	3468.8000000	23631.8600000
11	2007-05-15 00:00:00.000	139.8000000	23771.6600000
12	2007-05-16 00:00:00.000	355.5000000	24127.1600000
13	2007-05-19 00:00:00.000	12138.2200	36265.3800000
14	2007-05-20 00:00:00.000	469.1100000	36734.4900000
15	2007-05-21 00:00:00.000	1921.7000000	38656.1900000
16	2007-05-22 00:00:00.000	210.0000000	38866.1900000
17	2007-05-23 00:00:00.000	4604.8000000	43470.9900000
18	2007-05-26 00:00:00.000	240.1000000	43711.0900000
19	2007-05-27 00:00:00.000	3554.2750000	47265.3650000
20	2007-05-28 00:00:00.000	2360.6000000	49625.9650000
21	2007-05-29 00:00:00.000	880.5000000	50506.4650000
22	2007-05-30 00:00:00.000	3274.8250000	53781.2900000

2. Tampilkan moving average dari soal nomor 1.

#### Jawab:

```
SELECT orderdate, income, SUM(income) OVER (ORDER BY orderdate) AS
runningtotals,
AVG(income) OVER (ORDER BY orderdate) AS movingavg
FROM Sales.DailyIncome WHERE YEAR(orderdate) = 2007 AND MONTH(orderdate) =
5;
```

Output:



3. Tampilkan running total bulanan di tahun 2007 saja.

### Jawab:

```
SELECT MONTH(orderdate) AS bulan, SUM(income) AS pendapatanperbulan
FROM Sales.DailyIncome WHERE YEAR(orderdate) = 2007 GROUP BY
MONTH(orderdate) ORDER BY MONTH(orderdate);
```

### Output:

	bulan	pendapatanperbulan
1	1	61258.0700000
2	2	38483.6350000
3	3	38547.2200000
4	4	53032.9525000
5	5	53781.2900000
6	6	36362.8025000
7	7	51020.8575000
8	8	47287.6700000
9	9	55629.2425000
10	10	66749.2260000
11	11	43533.8090000
12	12	71398.4285000

4. Tampilkan rangking produk dengan harga termahal hingga yang termurah.

#### Jawab:

```
SELECT productname, unitprice,
RANK() OVER (ORDER BY unitprice DESC) AS ranking
FROM Production.Products;
```

# Output:

	productname	unitprice	ranking
1	Product QDOMO	263,50	1
2	Product VJXYN	123,79	2
3	Product AOZBW	97,00	3
4	Product QHFFP	81,00	4
5	Product CKEDC	62,50	5
6	Product UKXRI	55,00	6
7	Product APITJ	53,00	7
8	Product WUXYK	49,30	8
9	Product ZZZHR	46,00	9
10	Product OFBNT	45,60	10
11	Product SMIOH	43,90	11
12	Product ICKNK	43,90	11
13	Product WVJFP	40,00	13
14	Product BLCAX	39,00	14
15	Product OSFNS	38,00	15
16	Product VKCMF	38,00	15
17	Product COAXA	36,00	17
18	Product GEEOO	34,80	18
19	Product WHBYK	34,00	19
20	Product HCQDE	33,25	20
21	Product BKGEA	32,80	21
22	Product NUNAW	32,00	22
23	Product HLGZA	31,23	23
24	Product YHXGE	31,00	24
25	Product HMLNI	30,00	25