M	T	W	T	F	S	S
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

FEB '23

January
2023
Wk 04 • 023-342

23
Monday

ASSUMPTION: Each item with diff qty is considered as diff prdts.

9.00

① Sellers ✓ → s-id, s-name, s-email.

② Products ✓ → p-id, p-name, [p-cat-id] FK, p-amt.

10.00

③ Categories ✓ → [c-id] PK, c-name.

11.00

④ SellerProducts → sp-id [sid, p-id] FK

⑤ Buyers → b-id, b-name, b-email.

12.00

⑥ Orders → o-id, [b-id, s-id], date-of-order, addres

⑦ Orderitems → oi-id, [p-id, b-id] FK, [sp-id] FK

1.00

⑧ Payment → pay-id, pay-method

2.00

Queries:

3.00

I) Sellers:

1) Total Revenue → Orderitems + Sellerproducts + sellers.

4.00

→ last ~~week~~ month.

5.00

```
select s.s_name, sum(p.p_amt) as tot-revenue
FROM orderitems oi
```

6.00

```
JOIN   orders o on o.o_id = oi.o_id
JOIN   sellerproducts sp on sp.sp_id = oi.sp_id
```

7.00

```
JOIN   products p on p.p_id = sp.p_id
JOIN   sellers s on s.s_id = sp.sid
WHERE  ~~DATE~~
       o.date_of_order >= DATE_SUB(DATE_FORMAT(CURDATE(),
                          '%Y-%m-01'), INTERVAL
```

```
       AND ✓ o.date_of_order < DATE_FORMAT(CURDATE( 1 MONTH)
                               '%Y-%m-01')

       GROUP BY s.s_id, s.s_name;
```

24
Tuesday

January
2023
Wk 04 • 024-341

M T W T F S S
30 31   1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
JAN '23

Top 10 selling products that year by sales.

```sql
SELECT   s.s_name, p.p_name, total_sales
FROM  (
          SELECT
                S.s_id,
                p.p_id,
                S.s_name,
                P.p_name, SUM(p.p_amt) as total_sales)
                ROW NUMBER(
                    partition by s.s_id,
                    order by sum(p.p_amt) desc
                ) As rank
          FROM orderitems oi
          JOIN orders o on oi.oid = o.oid
          JOIN seller_products    sp on sp.spid = oi.spid
          JOIN sellers s on  s.s_id = sp.s_id.
          JOIN products p on  p.p_id = sp.p_id
          WHERE o.date_of_order >= DATE_FORMAT(
                          CURDATE(), '%Y-01-01')
          AND o.date_of_order < DATE FORMAT( CUR.DATE #) +
                                  INTERVAL 1 YEAR,
                                  '%Y-01-01')
          GROUP BY s.s_id, p.p_id, s.s_name, p.p_name
     ) ranked
     WHERE rank <= 10
```

```sql
     ORDER BY  s.s_name, total_sales DESc
```

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

FEB '23

January
2023
25
Wk 04 • 025-340
Wednesday

Buyers:

① Expense / product

9.00

10.00

```
SELECT
        b.b-name, p.p-name, c.c-name, SUM(p.p-amt) as expense
FROM    buyers b
JOIN    orders o ON b.b-id = o.b-id
JOIN    orderitems oi on oi.oid = o.oid
JOIN    sellerproducts sp on sp.sp-id = oi.spid
JOIN    products p on sp.pid = p.pid
JOIN    categories c on c.c-id = p.cat-id
GROUP BY b.b-id, c.c-id, b.b-name, c.c-name
ORDER BY b.b-name, expense DESC;
```

11.00

12.00

1.00

2.00

3.00

4.00

② Top 10 products purchased by sales value.

5.00

→ same idea as Top 10 selling prdts

6.00

7.00

Important Calls	✓	Things to Do	✓	Meetings	✓
	☐		☐		☐
	☐		☐		☐
	☐		☐		☐

26

January
2023
Wk 04 • 026-339

Thursday

M	T	W	T	F	S	S
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

JAN '23

```sql
SELECT  b.b-name, p.p-name, sales
FROM (
    SELECT   b.bid,  b.bname, p.pid, p.pname
    SUM(p.pamt) as sales
    ROWNUMBER() OVER (
        PARTITION BY b.bid
        ORDER BY  SUM(p.p-amt) DESC
    ) AS rank
    FROM buyers b
    JOIN orders o on b.bid = o.bid
    JOIN orderitems oi on oi.oid = o.oid
    JOIN sellerproducts sp on sp.spid = oi.spid
    JOIN products p on p.pid = sp.pid
    GROUP BY b.bid, b.bname, p.pid, p.pname
) ranked
WHERE rank <= 10
ORDER BY b.b-name, sales DESC;
```

9.00
10.00
11.00
12.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00

Important Calls

✓ Things to Do

☐

☐

☐

✓ Meetings

☐

☐

☐

✓

☐

☐