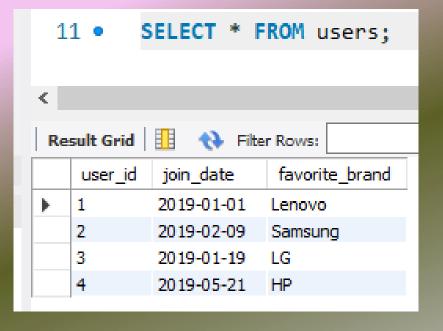
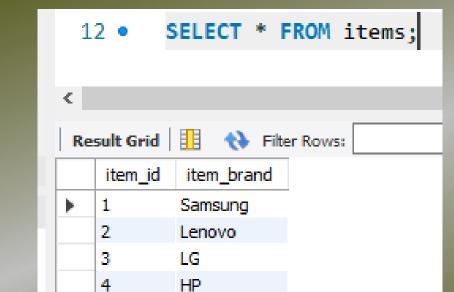
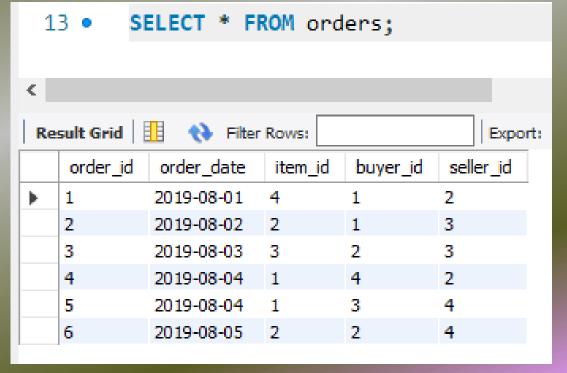
SQL LEETCODE PROBLEMS

QUESTION 9

Market Analysis





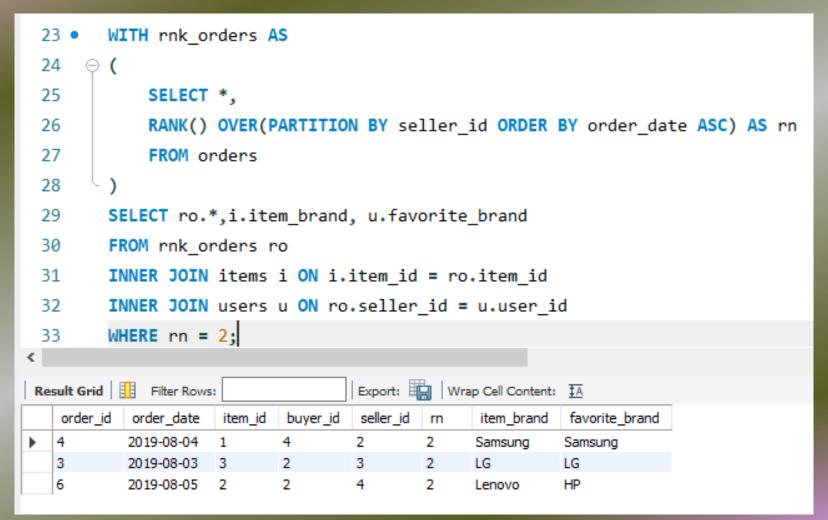


Data-

Get sellers having 2nd order

```
WITH rnk_orders AS
23 •
24
     ⊝ (
            SELECT *,
25
26
            RANK() OVER(PARTITION BY seller_id ORDER BY order_date ASC) AS rn
27
            FROM orders
28
29
       SELECT * FROM rnk_orders
       WHERE rn = 2;
30
                                   Export: Wrap Cell Content: TA
Result Grid Filter Rows:
  order_id order_date item_id buyer_id seller_id rn
          2019-08-04 1
                                   2
                                          2
          2019-08-03 3
          2019-08-05 2
```

Get which item brand was sold on 2nd order and their fav. Brand & compare both



Compare both brands

```
23 •
        WITH rnk_orders AS
24
     \Theta (
25
             SELECT *,
26
             RANK() OVER(PARTITION BY seller id ORDER BY order date ASC) AS rn
27
             FROM orders
28
29
        SELECT ro.*,i.item_brand, u.favorite_brand ,
30
             CASE WHEN i.item_brand = u.favorite_brand
                 THEN 'Yes' ELSE 'No'
31
32
                 END AS seconditem_favbrand
33
        FROM rnk orders ro
34
        INNER JOIN items i ON i.item id = ro.item id
35
        INNER JOIN users u ON ro.seller_id = u.user_id
36
        WHERE rn = 2;
Result Grid | Filter Rows:
                                     Export: Wrap Cell Content: $\overline{A}$
   order_id
           order_date
                     item_id
                             buyer_id
                                     seller_id
                                                   item_brand
                                                             favorite_brand
                                                                           seconditem_favbrand
                                            rn
          2019-08-04
                                     2
                                                   Samsung
                                                             Samsung
                                                                          Yes
          2019-08-03 3
                                                   LG
                                                             LG
                                                                          Yes
          2019-08-05 2
                                                   Lenovo
                                                             HΡ
                                                                          No
```

If seller solds less than 2 items, then report as no

```
WITH rnk orders AS
23 •
24
     \ominus (
25
             SELECT *,
26
             RANK() OVER(PARTITION BY seller_id ORDER BY order_date ASC) AS rn
27
             FROM orders
28
29
        SELECT u.user id, ro.*,i.item brand, u.favorite brand,
30
             CASE WHEN i.item brand = u.favorite brand
31
                 THEN 'Yes' ELSE 'No'
32
                 END AS seconditem favbrand
33
        FROM users u
34
        LEFT JOIN rnk orders ro ON ro.seller id = u.user id AND rn = 2
35
        LEFT JOIN items i ON i.item id = ro.item id
36
                                     Export: Wrap Cell Content: IA
Result Grid Filter Rows:
                                                                                 seconditem_favbrand
   user_id
          order_id
                  order_date
                             item_id
                                    buyer_id
                                             seller_id rn
                                                          item_brand
                                                                     favorite_brand
         NULL
                  NULL
                            NULL
                                   NULL
                                            NULL
                                                    NULL
                                                          NULL
                                                                    Lenovo
                                                                                 No
                  2019-08-04
                                    4
                                            2
                                                          Samsung
                                                                    Samsung
                                                                                 Yes
                  2019-08-03
                                                          LG
          3
                                                                    LG
                                                                                 Yes
          6
                  2019-08-05 2
                                                          Lenovo
                                                                    HP
                                                                                 No
```

Final script

```
WITH rnk_orders AS
23 •
24
     ⊖ (
25
           SELECT *,
26
            RANK() OVER(PARTITION BY seller id ORDER BY order date ASC) AS rn
27
            FROM orders
28
29
       SELECT u.user_id AS seller_id,
30
            CASE WHEN i.item_brand = u.favorite_brand
31
                THEN 'Yes' ELSE 'No'
32
                END AS seconditem favbrand
33
       FROM users u
       LEFT JOIN rnk_orders ro ON ro.seller_id = u.user_id AND rn = 2
34
35
       LEFT JOIN items i ON i.item_id = ro.item_id
36
                                 Export: Wrap Cell Content: TA
Result Grid Filter Rows:
  seller_id seconditem_favbrand
         No
         Yes
         Yes
         No
```

THANK YOU