









CODE: QUESTION1)	
We are running an experiment at an item-level, which means all users who visit will see the same page, but the layout of differed differ.	ent item pages may
Compare this table to the assignment events we captured for user_level_testing.	
Does this table have everything you need to compute metrics like 30-day view-binary?	
SELECT	
*	
FROM	
dsv1069.final_assignments_qa	
ANSWER: No, we need the date and time of assignment to compute metrics like 30-day view-binary!	

QUESTION2)

--Reformat the final_assignments_qa to look like the final_assignments table, filling in any missing values with a placeholder of the appropriate data type.

```
SELECT item_id,
  test_a AS test_assignment,
   'test_a' AS test_number,
  CAST('2020-01-01 00:00:00' AS timestamp) AS dummy_test_start_date
FROM dsv1069.final_assignments_qa
UNION ALL
SELECT item_id,
  test_b AS test_assignment,
   'test_b' AS test_number,
   CAST('2020-01-01 00:00:00' AS timestamp) AS dummy_test_start_date
FROM dsv1069.final_assignments_qa
UNION ALL
SELECT item_id,
  test_c AS test_assignment,
   'test_c' AS test_number,
```

```
CAST('2020-01-01 00:00:00' AS timestamp) AS dummy_test_start_date
FROM dsv1069.final_assignments_qa
UNION ALL
SELECT item_id,
  test_d AS test_assignment,
   'test_d' AS test_number,
   CAST('2020-01-01 00:00:00' AS timestamp) AS dummy_test_start_date
FROM dsv1069.final_assignments_qa
UNION ALL
SELECT item_id,
  test_e AS test_assignment,
   'test_e' AS test_number,
   CAST('2020-01-01 00:00:00' AS timestamp) AS dummy_test_start_date
FROM dsv1069.final_assignments_qa
UNION ALL
SELECT item_id,
  test_f AS test_assignment,
   'test_f' AS test_number,
   CAST('2020-01-01 00:00:00' AS timestamp) AS dummy_test_start_date
```

```
FROM dsv1069.final_assignments_qa
```

```
QUESTION 3)
-- Use this table to
-- compute order_binary for the 30 day window after the test_start_date
-- for the test named item_test_2
SELECT order_binary.test_assignment,
  COUNT(DISTINCT order_binary.item_id) AS num_orders,
  SUM(order_binary.orders_bin_30d) AS sum_orders_bin_30d
FROM
(SELECT assignments.item_id,
    assignments.test_assignment,
    MAX(CASE
       WHEN (DATE(orders.created_at)-DATE(assignments.test_start_date)) BETWEEN 1 AND 30 THEN 1
       ELSE 0
      END) AS orders_bin_30d
 FROM dsv1069.final_assignments AS assignments
 LEFT JOIN dsv1069.orders AS orders
```

```
ON assignments.item_id=orders.item_id
 WHERE assignments.test_number='item_test_2'
 GROUP BY assignments.item_id,
     assignments.test_assignment) AS order_binary
GROUP BY order_binary.test_assignment
QUESTION 4)
-- Use this table to
-- compute view_binary for the 30 day window after the test_start_date
-- for the test named item_test_2
SELECT view_binary.test_assignment,
  COUNT(DISTINCT view_binary.item_id) AS num_views,
  SUM(view_binary.view_bin_30d) AS sum_view_bin_30d,
  AVG(view_binary.view_bin_30d) AS avg_view_bin_30d
FROM
(SELECT assignments.item_id,
    assignments.test_assignment,
    MAX(CASE
```

WHEN (DATE(views.event_time)-DATE(assignments.test_start_date)) BETWEEN 1 AND 30 THEN 1

ELSE 0

END) AS view_bin_30d

FROM dsv1069.final_assignments AS assignments

LEFT JOIN dsv1069.view_item_events AS views

ON assignments.item_id=views.item_id

WHERE assignments.test_number='item_test_2'

GROUP BY assignments.item_id,

assignments.test_assignment

ORDER BY item_id) AS view_binary

GROUP BY view_binary.test_assignment