Flexible Data Formats

Log onto [Mode Analytics](#) and from the home page, create a new report by clicking on the green plus sign button in the upper right-hand corner. Enter the starter code provided for each exercise. You may want to create a new tab for each exercise.

Please use the discussion forum for any questions and/or comments you might have. Once you have tried the exercises, feel free to watch the solutions video. Good luck with your practice!

Exercise 1:
Goal: Write a query to format the view_item event into a table with the appropriate columns

Starter Code:
```
SELECT
    *
FROM
    dsv1069.events
WHERE
    event_name  = 'view_item'
```

Exercise 2:
Goal: Write a query to format the view_item event into a table with the appropriate columns (This replicates what we had in the slides, but it is missing a column)

Starter Code:
```
SELECT
    event_id,
    event_time,
    user_id,
    platform,
    (CASE WHEN parameter_name = 'item_id'
        THEN CAST(parameter_value AS INT)
        ELSE NULL
        END)  AS item_id
FROM
    dsv1069.events
WHERE
    event_name  = 'view_item'
ORDER BY event_id
```

Exercise 3:
Goal: Use the result from the previous exercise, but make sure

Starter Code: (Ex#2)

```sql
SELECT
    event_id,
    event_time,
    user_id,
    platform,
    (CASE WHEN parameter_name = 'item_id'
          THEN CAST(parameter_value AS INT)
          ELSE NULL
          END)  AS item_id,
    (CASE WHEN parameter_name = 'referrer'
          THEN parameter_value
          ELSE NULL
          END)  AS referrer
FROM
    dsv1069.events
WHERE
    event_name  = 'view_item'
ORDER BY event_id
```