

Exercises on fake data generated

1. Find earliest date a user joined

```
SELECT
    CONCAT(DATE_FORMAT(created_at, "%b"), " ",
           DATE_FORMAT(created_at, "%D"), " ",
           DATE_FORMAT(created_at, "%Y")) AS earliest_date
FROM
    users
ORDER BY created_at
LIMIT 1
;
```

```
+-----+
| earliest_date |
+-----+
| May 13th 2021 |
+-----+
```

2. Find the email of earliest user

```
SELECT
    email,
    CONCAT(
        DATE_FORMAT(created_at, "%b"), " ",
        DATE_FORMAT(created_at, "%D"), " ",
        DATE_FORMAT(created_at, "%Y")) AS earliest_date
FROM
    users
ORDER BY created_at
LIMIT 1
;
```

email	earliest_date
Janiya_Ebert@gmail.com	May 13th 2021

3. Users according to the month they joined

```
SELECT
    DATE_FORMAT(created_at, "%M") as month,
    COUNT(*) AS count
FROM
    users
GROUP BY month
ORDER BY count DESC
;
```

month	count
July	51
May	46
August	46
June	46
November	45
April	45
September	42
February	41
March	37
January	36
December	33
October	32

4. Count number of users with yahoo emails

```
SELECT
    COUNT(*) AS yahoo_users
FROM
    users
WHERE
    email LIKE "%@yahoo.com"
;
```

```
+-----+
| yahoo_users |
+-----+
|          160 |
+-----+
```

5. Calculate the total number of users for each email host

```
SELECT
  CASE
    WHEN email LIKE "%@yahoo.com" THEN "yahoo"
    WHEN email LIKE "%@gmail.com" THEN "gmail"
    WHEN email LIKE "%@hotmail.com" THEN "hotmail"
    ELSE "other"
  END AS provider,
  COUNT(*) AS count
FROM
  users
GROUP BY provider
ORDER BY count DESC
;
```

provider	count
hotmail	174
gmail	166
yahoo	160