Завдання 2

```
1.
SELECT
      DATE(users.date_reg) AS date_reg,
      countries.group AS country_group,
      COUNT(users.id) AS registrations
FROM
      users
JOIN
      countries ON users.id_country = countries.id
GROUP BY
      date_reg, country_group
ORDER BY
      date_reg, country_group;
2.
SELECT
      DATE(emails sent.date sent) AS date sent,
      emails_sent.id_type AS email_type,
      COUNT(emails_clicks.id) / COUNT(emails_sent.id) * 100 AS CTR
FROM
      emails sent
LEFT JOIN
      emails_clicks ON emails_sent.id = emails_clicks.id_email
GROUP BY
      DATE(emails_sent.date_sent), emails_sent.id_type
ORDER BY
      sent_date, email_type;
3.
SELECT
      e.id type AS email type,
      COUNT(
             SELECT 1
             FROM emails_clicks ec
             WHERE ec.id email = e.id
             AND EXTRACT(EPOCH FROM (ec.date_click - e.date_sent)) / 60 <= 10) ) /
      COUNT(e.id) * 100 AS click rate within 10 minutes
FROM
      emails_sent e
LEFT JOIN
      emails_clicks ec ON e.id = ec.id_email
WHERE
      e.date_sent >= CURRENT_DATE - INTERVAL '7 days'
GROUP BY
      e.id_type;
```

```
SELECT
        e.id_type AS email_type,
        PERCENTILE_CONT(0.5) WITHIN GROUP (ORDER BY EXTRACT(EPOCH FROM
(ec.date_click - e.date_sent))) AS median_click_time
FROM
        emails_sent e

JOIN
        emails_clicks ec ON e.id = ec.id_email
WHERE
        e.date_sent >= CURRENT_DATE - INTERVAL '1 month'
GROUP BY
        e.id_type;
```