Q1:

1. Application table - containing application ID, application date, and its associated merchant ID from 2019-10-28 to 2019-10-31.

| applicationid | ↓Σ⊽⊅ | merchantid | ↓Σ⊽⊅ | applicationdate | 7₽ |
|---------------|------|------------|------|------------------|------|
| 3210603 | | 21010 | | 2019-10-28 05:34 | 1:22 |
| 3210876 | | 26822 | | 2019-10-28 10:43 | 3:21 |
| 3211083 | | 28949 | | 2019-10-28 13:48 | 3:41 |
| 3211326 | | 19898 | | 2019-10-28 21:57 | 7:51 |
| 3211698 | | 43883 | | 2019-10-29 12:14 | 1:21 |
| 3211944 | | 43883 | | 2019-10-29 16:28 | 3:08 |
| 3212146 | | 45067 | | 2019-10-30 08:10 |):53 |
| 3212433 | | 19009 | | 2019-10-30 12:10 |):57 |
| 3212507 | | 45948 | | 2019-10-30 12:52 | 2:01 |

2. Merchant table - containing merchant ID and its associated merchant name.

| merchantid | ↓Σ⊽⊅ | businessname | 7₽ |
|------------|------|--|----|
| 25 | | Tantillo, Michael | |
| 38 | | Dr. Rodney A. Green M.D Facs | |
| 365 | | Chaney, Michael | |
| 388 | | Arizona Craniofacial & Plastic Surgery | |
| 701 | | Millard, John A | |
| 758 | | John Lomonaco, M.D, PA | |

Question: Please construct SQL queries to answer the two questions below:

- how many applications were receives from each merchant between 2019-10-28 and 2019-10-31?
- what are the top three merchant names by applications received between 2019-10-28 and 2019-10-31?

Q2:
Loan_status table

| loannumber | ↓Σ⊽⊅ | ach_yn | ↓Σ⊽⊅ | daysonfile | ↓Σ⊽⊅ | reportdate | 7₽ |
|------------|------|--------|------|------------|------|------------|-----|
| 2224203 | | 0 | | 1 | | 2019-10-24 | 00: |
| 2224203 | | 0 | | 2 | | 2019-10-25 | 00: |
| 2224203 | | 0 | | 3 | | 2019-10-26 | 00: |
| 2224203 | | 0 | | 4 | | 2019-10-27 | 00: |
| 2224203 | | 1 | | 5 | | 2019-10-28 | 00: |
| 2224203 | | 1 | | 6 | | 2019-10-29 | 00: |
| 2224203 | | 1 | | 7 | | 2019-10-30 | 00: |
| 2224203 | | 1 | | 8 | | 2019-10-31 | 00: |
| 2228005 | | 0 | | 1 | | 2019-10-24 | 00: |
| 2228005 | | 0 | | 2 | | 2019-10-25 | 00: |
| 2228005 | | 0 | | 3 | | 2019-10-26 | 00: |
| 2228005 | | 0 | | 4 | | 2019-10-27 | 00: |
| 2228005 | | 0 | | 5 | | 2019-10-28 | 00: |
| 2228005 | | 0 | | 6 | | 2019-10-29 | 00: |
| 2228005 | | 0 | | 7 | | 2019-10-30 | 00: |
| 2228005 | | 1 | | 8 | | 2019-10-31 | 00: |

Here is a table containing ACH status of loans from 10-24-2019 to 10-31-2019. "ach_yn" is the flag for the daily ACH status of a loan (1 = Yes, 0 = No). "ach_yn" = 1 means the borrower has an active automatic payment on that day.

- When "ach_yn" changes from 0 to 1 between two consecutive days, the loan has enrolled in ACH (enrollment)
- When "ach_yn" changes from 1 to 0 between two consecutive days, the loan has stopped enrolling in ACH

Question: Please construct SQL queries to answer the two questions below::

- how many enrollments happened within this time period (10-24-2019 to 10-31-2019)?
- how many enrollments happened in each day ("reportdate") between 10-24-2019 to 10-31-2019?