作业三

Q1

```
SELECT ACCOUNT_ID,

AVAIL_BALANCE,

OPEN_DATE,

LAST_ACTIVITY_DATE

FROM `account`

GROUP BY AVAIL_BALANCE,

ACCOUNT_ID,

OPEN_DATE,

LAST_ACTIVITY_DATE

ORDER BY AVAIL_BALANCE desc

LIMIT 1;
```

Q2

```
SELECT branch.BRANCH_ID,
       branch.`NAME`,
       X.AVG_BRANCH
FROM
  SELECT P.OPEN_BRANCH_ID as BRANCH_ID,
         P.AVG_BRANCH
  FROM
  (
    SELECT AVG_BRANCH
    FROM
      SELECT OPEN_BRANCH_ID,
             SUM(AVAIL_BALANCE)/count(ACCOUNT_ID) as AVG_BRANCH
      FROM `account`
      GROUP BY OPEN_BRANCH_ID
    ) as T
   LIMIT 1
  ) as Q,
    SELECT OPEN_BRANCH_ID,
           SUM(AVAIL_BALANCE)/count(ACCOUNT_ID) as AVG_BRANCH
    FROM `account`
    GROUP BY OPEN BRANCH ID
  ) as P
  WHERE P.AVG_BRANCH = Q.AVG_BRANCH
) as X, branch
WHERE X.BRANCH_ID = branch.BRANCH_ID
```

```
SELECT DISTINCT CUST_ID
FROM account
WHERE PRODUCT_CD in (
    SELECT PRODUCT_CD
    FROM account
    WHERE account.CUST_ID = 3
)
AND
CUST_ID != 3
ORDER BY CUST_ID
```

```
SELECT ID as CUST_ID
FROM
(
  SELECT T.ID1 as ID,
         COUNT(T.ID1) as NUM_ID
  FROM
  (
    SELECT B.CUST_ID AS ID1,
           A.CUST_ID AS ID2,
           A.PRODUCT_CD AS PID
    FROM
    (
      SELECT CUST_ID,
             PRODUCT_CD
      FROM account
      WHERE CUST_ID = 3
    ) AS A
      JOIN
      SELECT CUST_ID,
             PRODUCT_CD
      FROM account
     WHERE CUST_ID != 3
    ) AS B
      ON A.PRODUCT_CD = B.PRODUCT_CD
      ORDER BY B.CUST_ID
  ) AS T
    GROUP BY T.ID1
  ORDER BY T.ID1
) AS Q
WHERE NUM_ID = (
  SELECT count(CUST_ID)
  FROM account
  WHERE CUST_ID = 3
)
```

```
SELECT MONTH,
       SUM(AMOUNT) AS AMOUNT
FROM
(
  SELECT MONTH,
         TXN_TYPE_CD, SUM(AMOUNT) as AMOUNT
  FROM
  (
   SELECT CAST(DATE_FORMAT(TXN_DATE, "%m") AS SIGNED) AS MONTH,
           TXN_TYPE_CD,
           AMOUNT
   FROM acc_transaction
   WHERE TXN_DATE LIKE "2015%"
  ) as T
 GROUP BY MONTH, TXN_TYPE_CD
) as Q
GROUP BY MONTH
WITH ROLLUP
```

```
SELECT MONTH, TXN_TYPE_CD, sum(AMOUNT)
FROM
(
  SELECT CAST(DATE_FORMAT(TXN_DATE, "%m") AS SIGNED) AS MONTH,
         TXN_TYPE_CD,
         AMOUNT
  FROM acc_transaction
 WHERE TXN_DATE LIKE "2015%"
) as T
GROUP BY MONTH,
         TXN_TYPE_CD
WITH ROLLUP
UNION
SELECT MONTH, TXN_TYPE_CD, sum(AMOUNT)
FROM
(
  SELECT CAST(DATE_FORMAT(TXN_DATE, "%m") AS SIGNED) AS MONTH,
         TXN_TYPE_CD,
         AMOUNT
  FROM acc_transaction
 WHERE TXN_DATE LIKE "2015%"
) as T
GROUP BY TXN_TYPE_CD,
         MONTH
WITH ROLLUP
```