Homework - SQL2

- 1. Use Google Colabortory and do your homework.
- 2. (In Google colaboratory) Before you submit your homework, restart kernel and run every cell!
- 3. Save (File->Save) the file
- 4. Submit your homework (this file) in Google classroom
- 5. **Don't forget to click "제출" button** ("Submit", "완료로 표시", 또는 "제출" 버턴을 누르지 않으면 제출된 것이 아님)
- 6. No late homeworks will be accepted for any reason!

To edit this cell, double click here

```
이름: 이준용
학번: 201904458
학과: 컴퓨터전자시스템공학과
제출일: 20211203 + 코드 - + 텍스트
```

- 권고사항: 모든 SQL select 문에 tuple variable를 사용할 것.
- SQL 작성시, 문제에 주어지지 않은 상수를 사용하는 경우 (cheating), **마이너스 점수**를 받는다.
- 점수: 각 10점, 18번 20점, 총200점

```
%load_ext sql

!pip install pymysql

Collecting pymysql

Downloading PyMySQL-1.0.2-py3-none-any.whl (43 kB)

| 43 kB 2.1 MB/s

Installing collected packages: pymysql

Successfully installed pymysql-1.0.2
```

■ Use your host, id, password, and database

▼ Warning: Your companydb state MUST be clean as initial state

Refer to jupyter notebook on "SQL Lab"

- ▼ When you list the name of employees, the name must be the following format:
 - Output Schema and tuple format:

• Use MySQL concat 함수 사용, Refer to MySQL manual or Googling

```
%%sql
SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
DROP TABLE IF EXISTS DEPENDENT;
DROP TABLE IF EXISTS WORKS_ON;
DROP TABLE IF EXISTS PROJECT;
DROP TABLE IF EXISTS DEPT_LOCATIONS;
DROP TABLE IF EXISTS DEPARTMENT;
DROP TABLE IF EXISTS EMPLOYEE;
CREATE TABLE EMPLOYEE
       Fname VARCHAR(15) NOT NULL,
        Minit CHAR,
        Lname VARCHAR(15) NOT NULL,
        Ssn CHAR(9) NOT NULL,
        Bdate DATE,
        Address VARCHAR(30),
        Sex CHAR,
        Salary DECIMAL(10, 2),
        Superssn CHAR(9),
        Dno INT.
        PRIMARY KEY (Ssn),
        FOREIGN KEY (Superssn)
                REFERENCES EMPLOYEE(Ssn)
                ON DELETE SET NULL
                ON UPDATE CASCADE,
        FOREIGN KEY (Dno)
                REFERENCES DEPARTMENT(Dnumber)
                ON DELETE SET NULL
                ON UPDATE CASCADE
) ENGINE=InnoDB;
CREATE TABLE DEPARTMENT
        Dname VARCHAR(15) NOT NULL,
        Dnumber INT NOT NULL,
        Mgrssn CHAR(9),
        Mgrstartdate DATE,
        PRIMARY KEY (Dnumber),
        UNIQUE (Dname),
        FOREIGN KEY (Mgrssn)
                REFERENCES EMPLOYEE(Ssn)
                ON DELETE SET NULL
                ON UPDATE CASCADE
) ENGINE=InnoDB;
```

```
CREATE TABLE DEPT LOCATIONS
       Dnumber INT NOT NULL.
        Diocation VARCHAR(15) NOT NULL,
        PRIMARY KEY (Dnumber, Dlocation),
        FOREIGN KEY (Dnumber)
                 REFERENCES DEPARTMENT(Dnumber)
                 ON DELETE CASCADE
                 ON UPDATE CASCADE
) ENGINE=InnoDB;
CREATE TABLE PROJECT
        Pname VARCHAR(15) NOT NULL,
        Pnumber INT NOT NULL,
        Plocation VARCHAR(15),
        Dnum INT,
        PRIMARY KEY (Pnumber),
        UNIQUE (Pname).
        FOREIGN KEY (Dnum)
                 REFERENCES DEPARTMENT(Dnumber)
                 ON DELETE SET NULL
                 ON UPDATE CASCADE
) ENGINE=InnoDB;
CREATE TABLE WORKS_ON
        Essn CHAR(9) NOT NULL,
        Pno INT NOT NULL,
        Hours DECIMAL(3, 1),
        PRIMARY KEY (Essn. Pno),
        FOREIGN KEY (Essn)
                 REFERENCES EMPLOYEE(Ssn)
                 ON DELETE CASCADE
                 ON UPDATE CASCADE,
        FOREIGN KEY (Pno)
                 REFERENCES PROJECT(Pnumber)
                 ON DELETE CASCADE
                 ON UPDATE CASCADE
) ENGINE=InnoDB;
CREATE TABLE DEPENDENT
        Essn CHAR(9) NOT NULL,
        Dependent_name VARCHAR(15) NOT NULL,
        Sex CHAR,
        Bdate DATE.
        Relationship VARCHAR(8),
        PRIMARY KEY (Essn, Dependent_name),
        FOREIGN KEY (Essn)
                 REFERENCES EMPLOYEE(Ssn)
                 ON DELETE CASCADE
                 ON UPDATE CASCADE
) ENGINE=InnoDB;
insert into EMPLOYEE values
        ("John", "B", "Smith", "123456789", "1965-01-09", "731-Fondren-Houston-TX", "M", 30000, "333445555", 5),
        ("Franklin", "T", "Wong", "333445555", "1955-12-08", "638-Voss-Houston-TX", "M", 40000, "888665555", 5),
        ("Alicia", "J", "Zelaya", "999887777", "1968-01-19", "3321-Castle-Spring-TX", "F", 25000, "987654321", 4),
        ("Jennifer", "S", "Wallace", "987654321", "1941-06-20", "291-Berry-Bellaire-TX", "F", 43000, "888665555", 4),
        ("Ramesh", "K", "Narayan", "666884444", "1962-09-15", "975-Fire-Oak-Humble-TX", "M", 38000, "333445555", 5),
        ("Joyce", "A", "English", "453453453", "1972-07-31", "5631-Rice-Houston-TX", "F", 25000, "333445555", 5), ("Ahmad", "V", "Jabbar", "987987987", "1969-03-29", "980-Dallas-Houston-TX", "M", 25000, "987654321", 4),
        ("James", "E", "Borg", "888665555", "1937-11-10", "450-Stone-Houston-TX", "M", 55000, NULL, 1);
```

```
insert into DEPENDENT values
        (333445555, "Alice", "F", "1986-04-05", "Daughter"),
        (333445555, "Theodore", "M", "1983-10-25", "Son"),
        (333445555, "Joy", "F", "1958-05-03", "Spouse"),
        (987654321, "Abner", "M", "1942-02-28", "Spouse"),
        (123456789, "Michael", "M", "1988-01-04", "Son"),
        (123456789, "Alice", "F", "1988-12-30", "Daughter"),
        (123456789, "Elizabeth", "F", "1967-05-05", "Spouse");
insert into DEPARTMENT values
        ("Research", 5, 333445555, "1988-05-22"),
        ("Administration", 4, 987654321, "1995-01-01"),
        ("Headquarters", 1, 888665555, "1981-06-19");
insert into DEPT LOCATIONS values
        (1. "Houston").
        (4, "Stafford"),
        (5, "Bellaire"),
        (5, "Sugarland"),
        (5, "Houston");
insert into PROJECT values
        ("ProductX", 1, "Bellaire", 5),
        ("ProductY", 2, "Sugarland", 5),
        ("ProductZ", 3, "Houston", 5),
        ("Computerization", 10, "Stafford", 4),
        ("Reorganization", 20, "Houston", 1),
        ("Newbenefits", 30, "Stafford", 4);
insert into WORKS_ON values
        (123456789, 1, 32.5),
        (123456789, 2, 7.5),
        (666884444, 3, 40.0),
        (453453453, 1, 20.0),
        (453453453, 2, 20.0),
        (333445555, 2, 10.0),
        (333445555, 3, 10.0),
        (333445555, 10, 10.0),
        (333445555, 20, 10.0).
        (999887777, 30, 30.0),
        (999887777, 10, 10.0),
        (987987987, 10, 35.0),
        (987987987, 30, 5.0),
        (987654321, 30, 20.0),
        (987654321, 20, 15.0),
        (888665555, 20, NULL);
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
      * mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
```

```
* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458d

0 rows affected.

0 rows affected.
```

0 rows affected.

```
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0 rows affected.
8 rows affected.
7 rows affected.
3 rows affected.
```

[]

5 rows affected. 6 rows affected. 16 rows affected. 0 rows affected. 0 rows affected.

▼ 1-13번에 대해 SQL select 문을 작성하고 MySQL에서 실행한 결과물을 제출하시오.

1. Retrieve the names of employees in department 5 who work more than 10 hours per week on the 'ProductX' project. (single SELECT 사용, MySQL concat 함수 사용)

```
%%sql

SELECT CONCAT(e.Fname,' ',e.Minit,'.',' ', e.Lname) AS 'Employee name'
FROM EMPLOYEE e, PROJECT p, WORKS_ON w
WHERE e.Dno = 5 AND e.Ssn = w.Essn AND p.Pnumber = w.Pno AND w.Hours >10;

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
4 rows affected.
Employee name
John B. Smith
Joyce A. English
Joyce A. English
Ramesh K. Narayan
```

2. List the names of employees who have a dependent with the same sex as themselves. (EXISTS 사용)

```
%%sql

SELECT CONCAT(e.Fname, ' ',e.Minit,'.', ' ', e.Lname) AS 'Employee name'
FROM EMPLOYEE e
WHERE EXISTS (
    SELECT *
FROM DEPENDENT d
WHERE e.Sex=d.Sex AND e.Ssn=d.Essn );
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 2 rows affected.

Employee name

John B. Smith

Franklin T. Wong

▼ 3. Find the names of employees that are directly supervised by 'Franklin Wong'. (EXISTS 사용)

```
%%sql

SELECT CONCAT(e.Fname,' ',e.Minit,'.',' ', e.Lname) AS 'Employee name'
FROM EMPLOYEE e
WHERE EXISTS(
    SELECT *
    FROM EMPLOYEE m
    WHERE m.ssn = e.Superssn AND m.Fname='Franklin' AND m.Lname='Wong'
);
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 3 rows affected.

Employee name

John B. Smith Joyce A. English Ramesh K. Narayan

4. For each project, list the project name and the total hours per week (by all employees) spent on that project.

Output Schema:

```
%%sql

SELECT p.Pname AS 'Project name', SUM(wo.Hours) AS 'Total hours'
FROM PROJECT p, WORKS_ON wo
WHERE p.Pnumber = wo.Pno
GROUP BY p.Pname;
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 6 rows affected.

Project name Total hours

Computerization 55.0
Newbenefits 55.0
ProductX 52.5
ProductY 37.5
ProductZ 50.0
Reorganization 25.0

5. Retrieve the names of employees who work on every project managed by 'Administration' department.

```
%%sql
select CONCAT(e.Fname,' ',e.Minit,'.',' ', e.Lname) AS 'Employee name'
from EMPLOYEE e
where not exists (
```

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```
where not exists (
    select *
    from PROJECT p, DEPARTMENT d
    where d.Dnumber=p.Dnum and d.Dname='Administration' and
    not exists (
        select *
        from WORKS_ON w
        where e.ssn = w.essn and p.pnumber = w.pno
    )
)
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 2 rows affected.

Employee name

Ahmad V. Jabbar Alicia J. Zelaya

6. Retrieve the names of employees who do not work on any project which is located in 'Houston'.

(NOT EXISTS 사용)

```
%%sql

select concat(e.Fname,' ',e.Minit,'.',' ', e.Lname) as 'Employee name'
from EMPLOYEE e
where not exists (
    select *
    from PROJECT p
    where p.Plocation='Houston' and
    exists (
        select *
        from WORKS_ON w
        where e.ssn = w.essn and p.pnumber = w.pno
    )
);
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 4 rows affected.

Employee name

John B. Smith Joyce A. English Ahmad V. Jabbar Alicia J. Zelaya

7. For each department, retrieve the department name, and the average salary of employees working in that department.(소수점 이하 2자리까지만(버림) 출력, Refer to MySQL manual or Googling)

Output schema

```
+-----+
| Department name | Average salary |
+-----+
```

%%sql

```
select concat(d.Dname) as 'Department name', concat(truncate(avg(salary),2)) as 'Average salary' from DEPARTMENT d, EMPLOYEE e where d.Dnumber=e.Dno group by d.Dname;
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 3 rows affected.

Department name Average salary

Research 33250.00 Headquarters 55000.00 Administration 31000.00

8. Retrieve the average salary of all female employees. (소수점 이하 2자리까지만(버림) 출력, Refer to MySQL manual or Googling)

Output Schema:

```
+-----+
| Average salary |
+-----+
```

```
%%sql
select concat(truncate(avg(salary),2)) as 'Average salary'
from EMPLOYEE e
where e.sex='F';
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 1 rows affected.

Average salary

31000.00

9. Find the names and addresses of employees who work on at least one project located in Houston but whose department has no location in Houston. (EXISTS, NOT EXISTS 사용)

Output schema:

```
%%sql
select concat(e.Fname,' ',e.Minit,'.',' ', e.Lname) AS 'Employee name',concat(e.Address) as 'Address'
from EMPLOYEE e
where exists (
    select *
    from WORKS_ON w, PROJECT p
    where w.Pno=p.Pnumber and p.Plocation='Houston' and e.ssn=w.Essn
) and not exists (
    select *
    from DEPT_LOCATIONS de
    where e.Dno=de.Dnumber and de.Dlocation='Houston'
```

):

```
* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
1 rows affected.

Employee name Address
Jennifer S. Wallace 291-Berry-Bellaire-TX
```

▼ 10. List the names of department managers who have no dependents. (EXISTS, NOT EXISTS 사용)

```
% sql

select concat(e.Fname, ' ',e.Minit,'.',' ', e.Lname) AS 'Employee name'
from EMPLOYEE e
where exists (
    select *
    from DEPARTMENT d
    where e.Ssn=d.Mgrssn
) and not exists (
    select *
    from DEPENDENT de
    where e.Ssn=de.Essn
)

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
1 rows affected.
Employee name
```

11. Retrieve the names of all employees who work in the department that has the employee with the highest salary among all employees.

```
%%sql
select concat(e.Fname, ' ',e.Minit,'.', ' ', e.Lname) AS 'Employee name'
from EMPLOYEE e
where e.Dno = (
   select em.Dno
   from EMPLOYEE em
   where em.Salary = (select MAX(Salary)from EMPLOYEE))
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 1 rows affected.

Employee name James E. Borg

James E. Borg

12-1. Retrieve the names of all employees whose supervisor's supervisor is James Borg. (EXISTS 안 에 EXISTS 사용)

```
%%sql
select concat(e.Fname, ' ',e.Minit,'.', ' ', e.Lname) AS 'Employee name'
from EMPLOYEE e
where exists (
```

```
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```

```
select *
from EMPLOYEE i
where e.superssn = j.ssn and j.lname = 'Borg' and j.fname = 'James'
  * mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
```

2 rows affected.

Employee name

Franklin T. Wong

Jennifer S. Wallace

12-2. Retrieve the names of all employees whose supervisor's supervisor is James Borg. (single SELECT 사용)

```
%%sal
select concat(e.Fname, '',e.Minit, '.', ', e.Lname) AS 'Employee name'
from EMPLOYEE e, EMPLOYEE j
where j.Iname = 'Borg' and j.fname = 'James' and j.ssn = e.superssn
union all
select concat(k.Fname, '', k.Minit, '.', ', k.Lname) AS 'Employee name'
from EMPLOYEE e, EMPLOYEE j, EMPLOYEE k
where e.Iname = 'Borg' and e.fname = 'James' and e.ssn = j.superssn and j.ssn = k.superssn;
```

* mysgl+pymysgl://s201904458:***@dm.hufs.ac.kr:3306/s201904458db

7 rows affected.

Employee name

Franklin T. Wong

Jennifer S. Wallace

John B. Smith

Joyce A. English

Ramesh K. Narayan

Ahmad V. Jabbar

Alicia J. Zelaya

13. Retrieve the names of employees who make at least 10,000 dollars more than the employee who is paid the least in the company.

```
%%sql
select concat(e.Fname,' ',e.Minit,'.',' ', e.Lname) AS 'Employee name'
from EMPLOYEE e
where e.salary >=all (select (min(salary)+10000) from EMPLOYEE);
```

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db

4 rows affected.

Employee name

Franklin T. Wong

Ramesh K. Narayan

James E. Borg

Jennifer S. Wallace

14-17번에 대해 SQL view문을 작성하고 MySQL에서 "select * from "을 실행한 결과물을 제출 하시오.

▼ 14. A view that has the department name, manager name, and manager salary for every department

```
%%sal
DROP view IF EXISTS DEPT_VIEW;
create view DEPT_VIEW
as select d.Dname,concat(e.Fname,' ',e.Minit,'.',' ', e.Lname) AS 'Employee name', e.Salary
   from DEPARTMENT d, EMPLOYEE e
  where d.Mgrssn = e.Ssn
      * mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
     0 rows affected.
     0 rows affected.
     []
%sql select * from DEPT_VIEW;
      * mysgl+pvmysgl://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
     3 rows affected.
         Dname
                    Employee name Salary
      Headquarters James E. Borg
                                     55000.00
      Administration Jennifer S. Wallace 43000.00
      Research
                    Franklin T. Wong 40000.00
```

15. A view that has the employee name, supervisor name, and employee salary for each employee who works in the 'Research' department

```
%%sql

DROP view IF EXISTS RESEARCH_DEPT_VIEW;

create view RESEARCH_DEPT_VIEW as
select concat(e.Fname, ' ',e.Minit,'.',' ', e.Lname) AS 'employee name',concat(em.Fname, ' ',em.Minit,'.',' ', em.Lname
from EMPLOYEE e, EMPLOYEE em
where e.Superssn = em.Ssn

  * mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
    0 rows affected.
    0 rows affected.
    []

%sql select * from RESEARCH_DEPT_VIEW;
```

```
* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 7 rows affected.
```

employee name supervisor name employee salary

16. A view that has the project name, controlling department name, number of employees, and total hours worked per week on the project for each project

```
%%sql
DROP view IF EXISTS PROJECT_VIEW:
create view PROJECT_VIEW as
select p.pname as 'project_name', d.dname as 'department_name', count(*) as 'numOfEmployees', avg(wo.Hours) as 'hours'
from EMPLOYEE e, DEPARTMENT d, WORKS_ON wo, PROJECT p
where e.dno = d.dnumber and wo.pno=p.pnumber and wo.essn=e.ssn and p.dnum = d.dnumber
group by p.pname

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
0 rows affected.
[]

%sql select * from PROJECT_VIEW:

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
6 rows affected.
project_name department_name numOfEmployees hoursWorkedPerWeek
```

Computerization Administration 2 22.50000 Newbenefits Administration 18.33333 3 Reorganization Headquarters 1 None ProductX Research 2 26.25000 ProductY Research 3 12.50000 ProductZ Research 2 25.00000

17. A view that has the project name, controlling department name, number of employees, and total hours worked per week on the project for each project with more than two employees working on it

```
%%sq!
DROP view IF EXISTS PROJECT_VIEW_GT2:

create view PROJECT_VIEW_GT2 as
select p.Pname as 'project_name', d.Dname as 'department_name', count(*) as 'numOfEmployees', avg(wo.Hours) as 'hours'
from EMPLOYEE e, DEPARTMENT d, WORKS_ON wo, PROJECT p
where e.Dno = d.Dnumber and wo.Pno=p.Pnumber and wo.Essn=e.Ssn and p.Dnum = d.Dnumber
group by p.Pname
having count(*) >= 2

    * mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
    O rows affected.
    O rows affected.
    []

%sql select * from PROJECT_VIEW_GT2:
```

```
* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 5 rows affected.
```

project_name department_name numOfEmployees hoursWorkedPerWeek

```
Computerization Administration 2 22.50000

Newbenefits Administration 3 18.33333

ProductX Research 2 26.25000
```

18. EMPLOYEE 테이블의 salary의 변경사항이 있을 때 마다, 변경사항을 기록하는 테이블 salary_audit(ssn, before_salary, after_salary, u_datetime)을 만들고, update trigger를 사용하여 변경사항을 기록하시오. 5번 부서에 속하는 직원의 salary를 100% 상향 조정 후, "select * from salary_audit"를 통해 결과를 확인하시오. udatetime에는 수정이 실행된 DATETIME(SQL Datatype, 날짜와 시각)을 기록한다. 현재 시각값은 now() 함수를 통해 얻을 수 있다.

→ Warning

%%sal

- 18번 문제 Update 한 후에 1-17번 문제를 다시 풀면 다른 결과가 나올 수 있음
- 1-17번 문제는 반드시 companydb의 초기 상태에서 풀어야 함

```
drop table if exists salary_audit;
create table salary_audit (
 essn char(9),
 before_salary decimal(10,2),
 after_salary decimal(10,2),
 udatetime datetime
      * mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
     0 rows affected.
     0 rows affected.
     %%sql
drop trigger if exists salary_audit_trig;
create trigger salary_audit_trig
after update
on EMPLOYEE
for each row
begin
if new.salary ⇔ old.salary then
  insert into salary_audit values (new.ssn, old.salary, new.salary, now());
end if;
end
      * mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db
     0 rows affected.
     0 rows affected.
     []
%sql select * from salary_audit;
```

* mysql+pvmysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db

0 rows affected.

essn before_salary after_salary udatetime

```
%sql update EMPLOYEE set salary = 2 * salary where dno = 5;
```

```
* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 4 rows affected. 
 []
```

%sql select * from salary_audit;

* mysql+pymysql://s201904458:***@dm.hufs.ac.kr:3306/s201904458db 4 rows affected.

essn	before_salary	after_salary	udatetime
123456789	30000.00	60000.00	2021-11-27 03:26:06
333445555	40000.00	80000.00	2021-11-27 03:26:06
453453453	25000.00	50000.00	2021-11-27 03:26:06
666884444	38000.00	76000.00	2021-11-27 03:26:06