

ВАРИАНТ 1

1 задание!!!

```
create table if not exists workers (  
id serial not null primary key,  
fio varchar(40) not null,  
btday date not null,  
pos varchar(40) not null  
);
```

```
create table if not exists operations (  
id serial not null primary key,  
course_id int references courses(id),  
currency_name varchar(30) not null,  
summary int not null,  
worker_id int references workers(id)  
);
```

```
create if not exists currencies (  
id serial not null primary key,  
currency_name varchar(30) not null  
);
```

```
create if not exists courses (  
id serial not null primary key,  
currency_id int unique not null references  
currencies(id),  
sale int not null,  
buy int not null  
);
```

```
INSERT INTO workers(id, fio, btday, pos) values (1, 'Filippov', '01-02-1989', 'peshka');
```

```
INSERT INTO workers(id, fio, btday, pos) values (2, 'Pupkin', '01-01-1985', 'main');
```

```
INSERT INTO workers(id, fio, btday, pos) values (3, 'Belousov', '01-01-1991', 'director');
```

```
INSERT INTO workers(id, fio, btday, pos) values (4, 'Kurov', '01-01-1991', 'co-director');
```

```
INSERT INTO workers(id, fio, btday, pos) values (5, 'Borisov', '01-05-1989', 'manager');
```

```
INSERT INTO currencies(id, currency_name) values (1, 'Dollar');
```

```
INSERT INTO currencies(id, currency_name) values (2, 'Euro');
```

```
INSERT INTO currencies(id, currency_name) values (3, 'Funt');
```

```
INSERT INTO currencies(id, currency_name) values (4, 'Ruble');
```

```
INSERT INTO currencies(id, currency_name) values (5, 'GRIVNA');
```

```
INSERT INTO courses(id, currency_id, sale, buy) values (1, 1, 10, 20);
```

```
INSERT INTO courses(id, currency_id, sale, buy) values (2, 2, 30, 40);
```

```
INSERT INTO courses(id, currency_id, sale, buy) values (3, 3, 50, 60);
```

```
INSERT INTO courses(id, currency_id, sale, buy) values (4, 4, 70, 80);
```

```
INSERT INTO courses(id, currency_id, sale, buy) values (5, 5, 90, 95);
```

```
INSERT INTO operations(id, course_id, currency_name, summary, worker_id) values (1, 1, 'Dollar', 100, 1);
```

```
INSERT INTO operations(id, course_id, currency_name, summary, worker_id) values (2, 2, 'Euro', 200, 2);
```

```
INSERT INTO operations(id, course_id, currency_name, summary, worker_id) values (3, 3, 'FUNT', 300, 3);
```

```
INSERT INTO operations(id, course_id, currency_name, summary, worker_id) values (4, 4, 'Ruble', 500, 4);
```

```
INSERT INTO operations(id, course_id, currency_name, summary, worker_id) values (1, 1, 'Grivna', 500, 5);
```

```
INSERT INTO operations(id, course_id, currency_name, summary, worker_id) values (6, 2, 'Euro', 700, 1);
```

## Задание 2!!!

--Работники с фамилией Pupkin переименовываются в 'The best worker'  
--другие в "

```
select id, btday, fio,  
case fio  
when 'Pupkin' then 'The best worker' else "  
end fio  
from workers
```

--суммируется summary  
select id, course\_id, currency\_name,  
sum(summary) over(order by id) as "sum"  
from operations

--выводит название валют, которых нет в таблице > 1 и их количество  
select currency\_name, count(currency\_name)  
from operations  
group by currency\_name  
having count(currency\_name) >1

## Задание 3!!!

```
create or replace procedure dump_func() as $$  
    declare  
        temp_text;  
        db text;  
        table_record;  
        file_name text;  
    begin  
        for table_ in select tablename from pg_catalog.pg_tables where  
schemaname='public'  
        loop  
            db := (select current_database());  
            temp_ := current_date::text;  
            file_name := 'C:\database\' || db || '_' || table_.tablename || '_' ||  
temp_ || '.csv';  
            execute format('copy (select * from %I) to %L CSV', table_.tablename,  
file_name);  
        end loop;  
    end;  
$$ language plpgsql;  
  
call dump_func();
```