Interactive - 27 - 1 to 0 or 1 relationship (fk, unique)

Now that we have our tables let's look at the relationship between "t_ymux_user" and ct_login. This is our 1 to 0 or 1 relationship.

It is provided by the primary key on ct_login being required but not having a default value where a key is generated. This is combined with the foreign key constraint to "t_ymux_user".

Try an insert to see if you can fake it out (the insert will fail).

```
insert into ct_login ( user_id, pg_acct ) values ( uuid_generate_v4(), 'x' );
```

You should get an error. The error indicates that you violated a foreign key and will look similar to:

If you ran it in psql or pgAmdmin your error would look like:

```
ERROR: insert or update on table "ct_homework_ans" violates foreign key constraint "user_ic
DETAIL: Key (user_id)=(ce1d8fdd-aa04-4bb4-9ef7-72655ff63b95) is not present in table "ct_ld"
CONTEXT: SQL statement "insert into ct_homework_ans (
        user id,
        homework_id
    ) select
        NEW.user_id,
        t1.homework_id
    from ct_homework as t1
    where not exists (
            select 1 as "found"
            from ct_homework_ans t2
            where t2.user_id = NEW.user_id
              and t2.homework_id = t1.homework_id
PL/pgSQL function ct_login_ins() line 3 at SQL statement
In this tool you get back:
{
    "Status": "error",
    "MsgSet": [
            "Msg": "pq: insert or update on table \"ct_homework_ans\" violates foreign key
            "Stmt": "insert into ct_login ( user_id, pg_acct ) values ( uuid_generate_v4(),
   ]
}
```

Tags: 1:0,"1 to 0","1:0 relationship","1:1"

Validate: SQL-Select, "select 'PASS' as x"