

TP Final

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---3. SQL

----3.1. Charger le jeu de donnees « data_person_profiles.txt »---

```
CREATE TABLE public.data_person_profiles
(
age integer,
work_class          varchar(50),
salary             integer,
education          varchar(50),
education_num       integer,
marital_status      varchar(50),
occupation          varchar(50),
relationship        varchar(50),
race                varchar(50),
gender              varchar(50),
capital_gain        integer,
capital_loss        integer,
hours_per_week      integer,
country             varchar(50),
target              varchar(50)

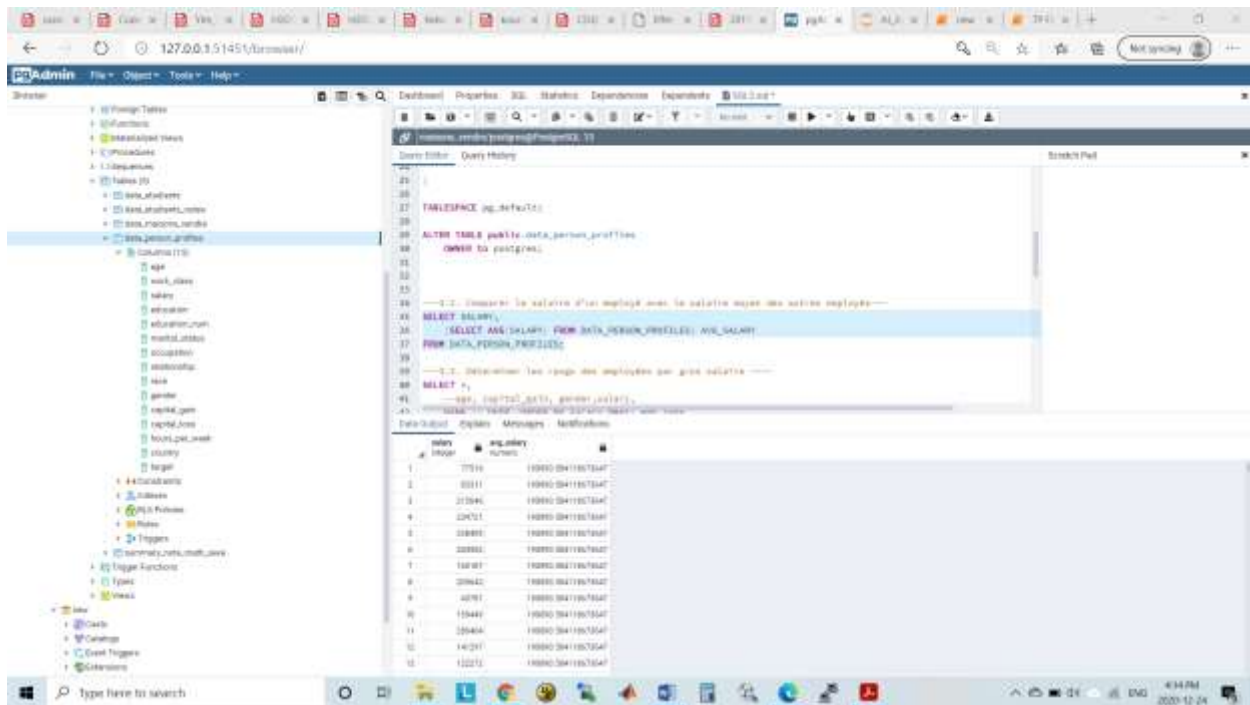
)
```

```
TABLESPACE pg_default;
```

```
ALTER TABLE public.data_person_profiles
    OWNER to postgres;
```

---3.2. Comparer le salaire d'un employee avec le salaire moyen des autres employees---

```
SELECT SALARY,
       (SELECT AVG(SALARY) FROM DATA_PERSON_PROFILES) AVG_SALARY
FROM DATA_PERSON_PROFILES;
```

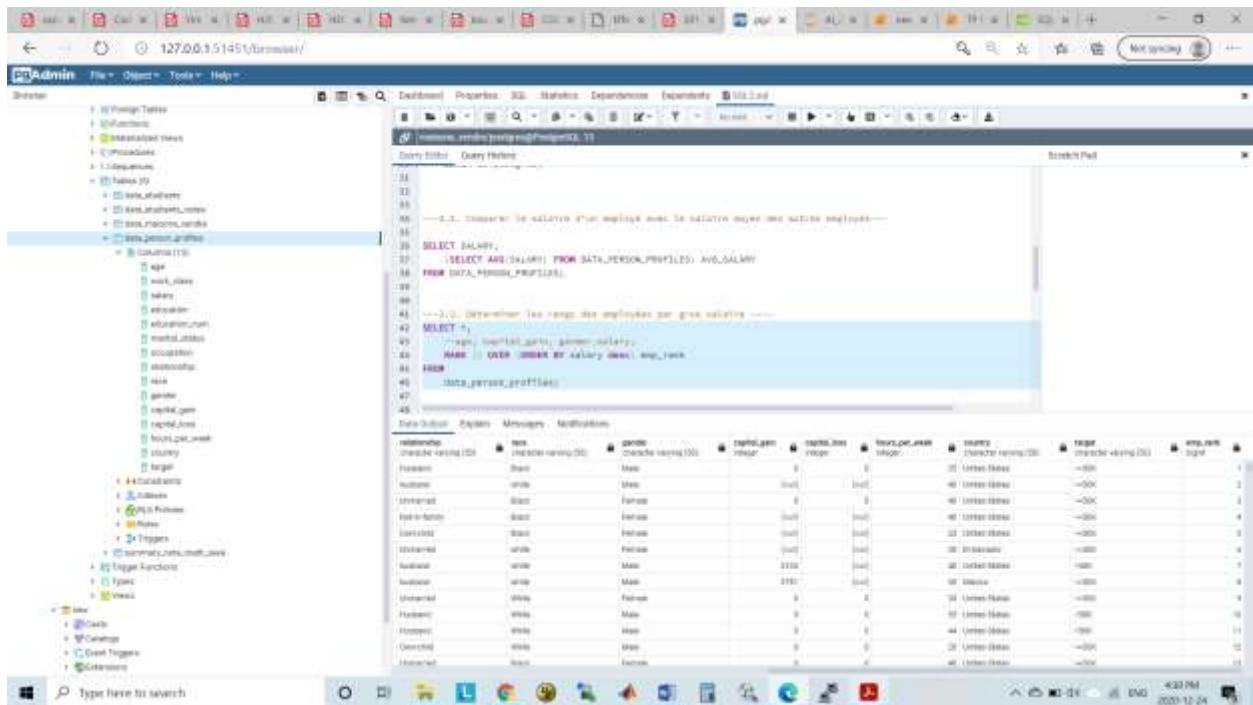


---3.3. Déterminer les rangs des employees par gros salaire ----

```

SELECT *,
       RANK () OVER (ORDER BY salary desc) emp_rank
FROM
  data_person_profiles;

```



--3.4. Determine les 10 premiers rangs des employees par age, capital-gain et sexe ---

--by age

SELECT

```

age, capital_gain, gender, salary,      RANK () OVER (
ORDER BY age
) emp_rank

```

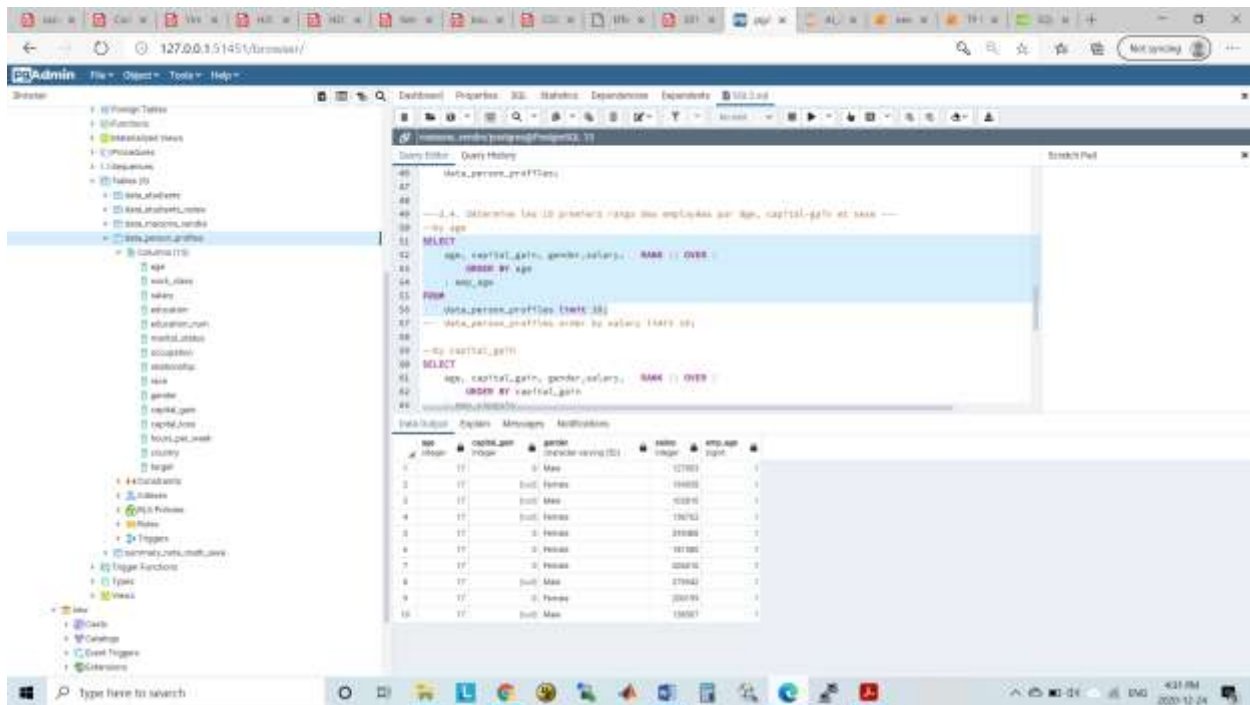
FROM

```

data_person_profiles limit 10;

```

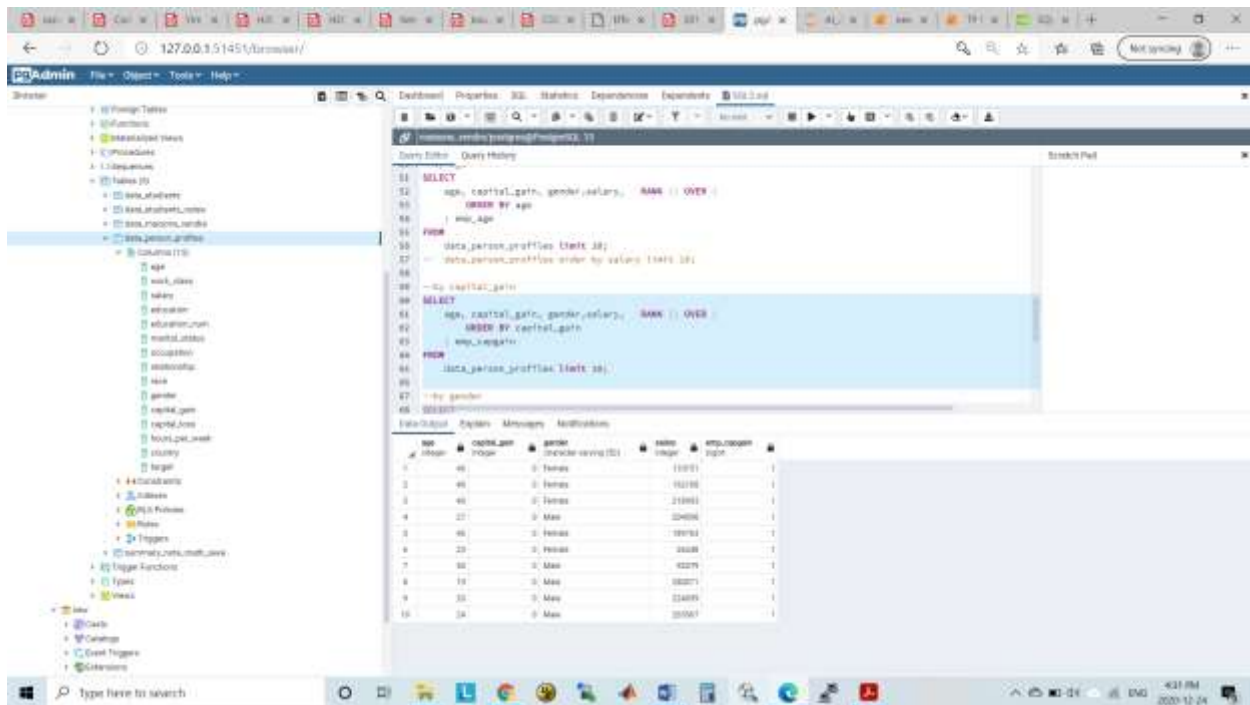
-- data_person_profiles order by salary limit 10;



```

--by capital_gain
SELECT
    age, capital_gain, gender,salary,      RANK () OVER (
        ORDER BY capital_gain
    ) emp_capgain
FROM
    data_person_profiles limit 10;

```

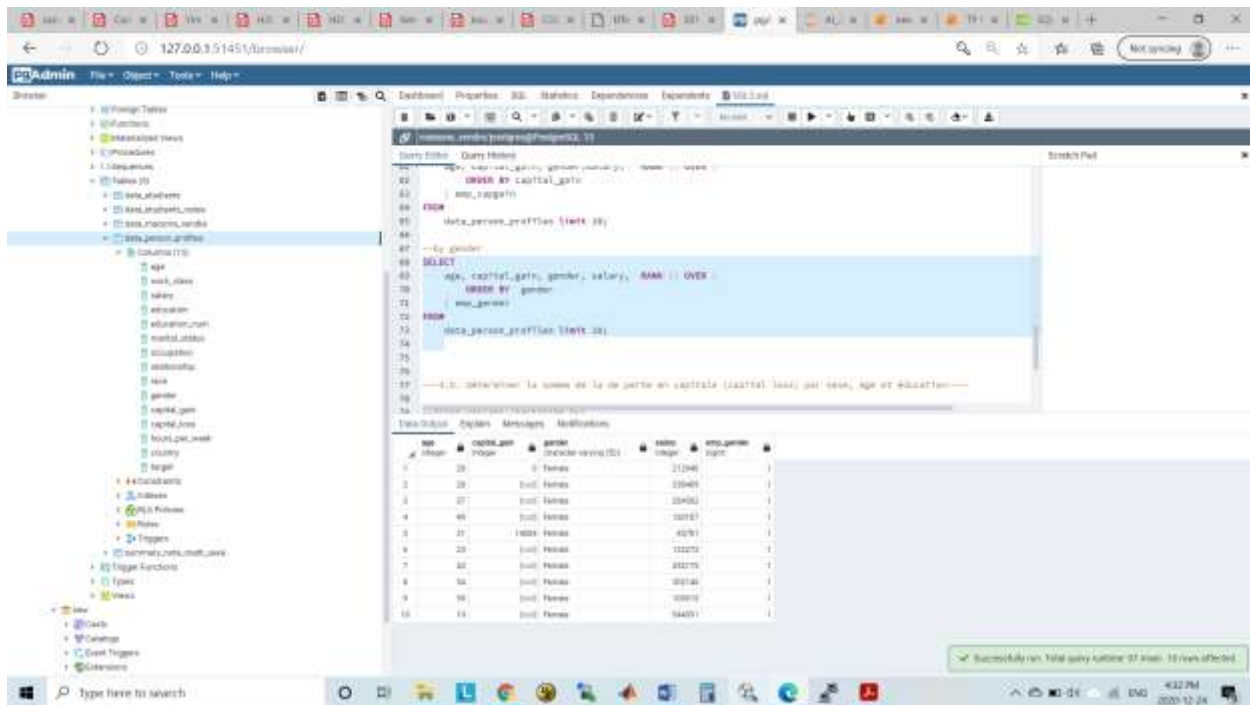


--by gender

```

SELECT
    age, capital_gain, gender, salary,      RANK () OVER (
        ORDER BY gender
    ) emp_gender
FROM
    data_person_profiles limit 10;

```



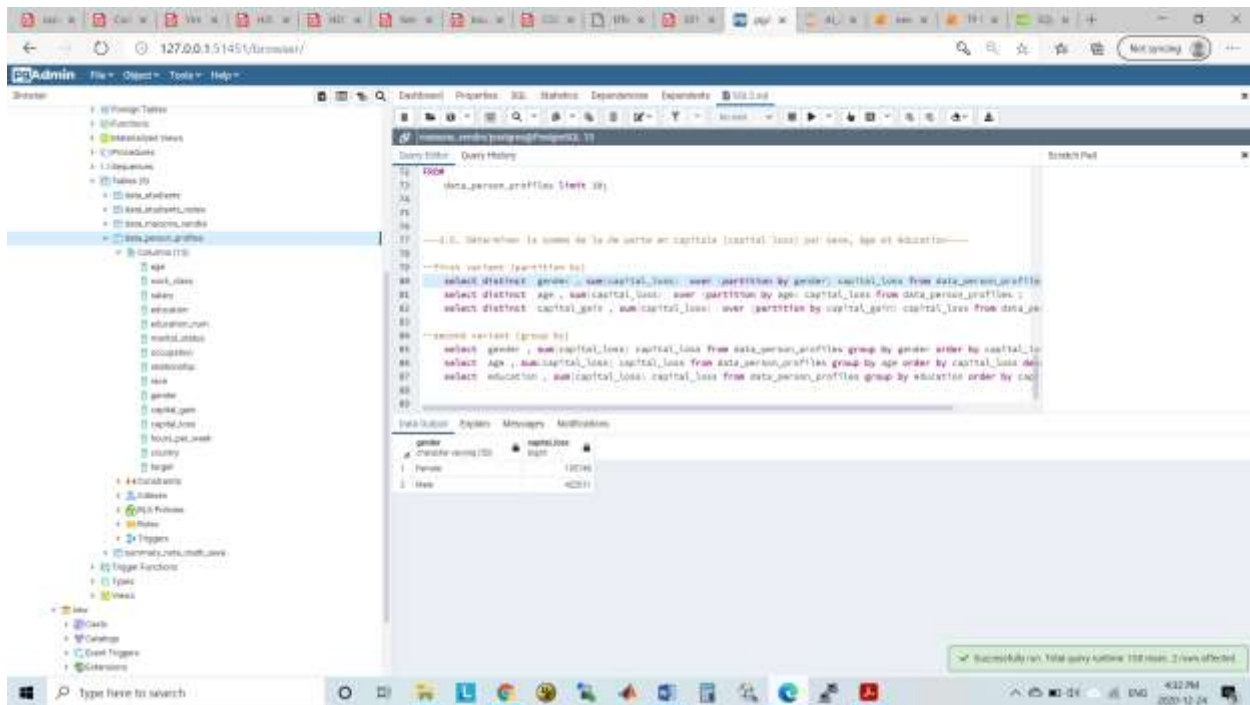
--3.5. Determiner la somme de la de perte en capitale (capital loss) par sexe, Age et Education----

--first variant (partition by)

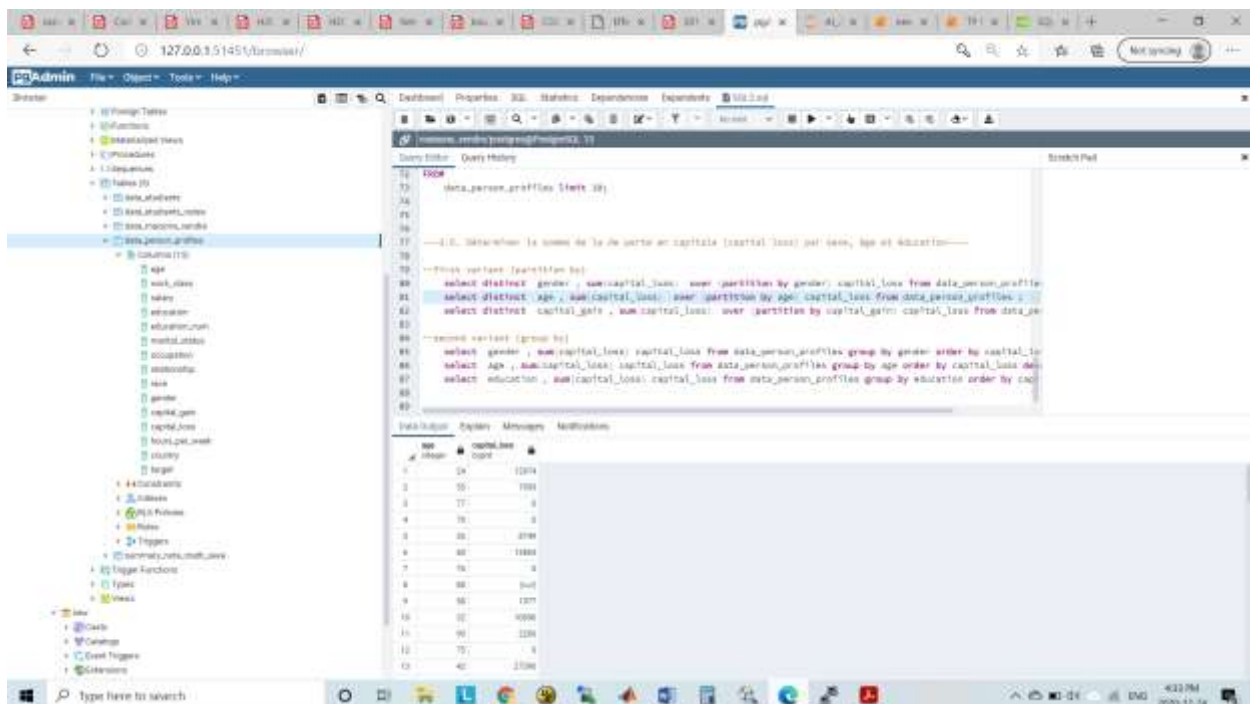
```

select distinct gender , sum(capital_loss) over (partition by
gender) capital_loss from data_person_profiles ;

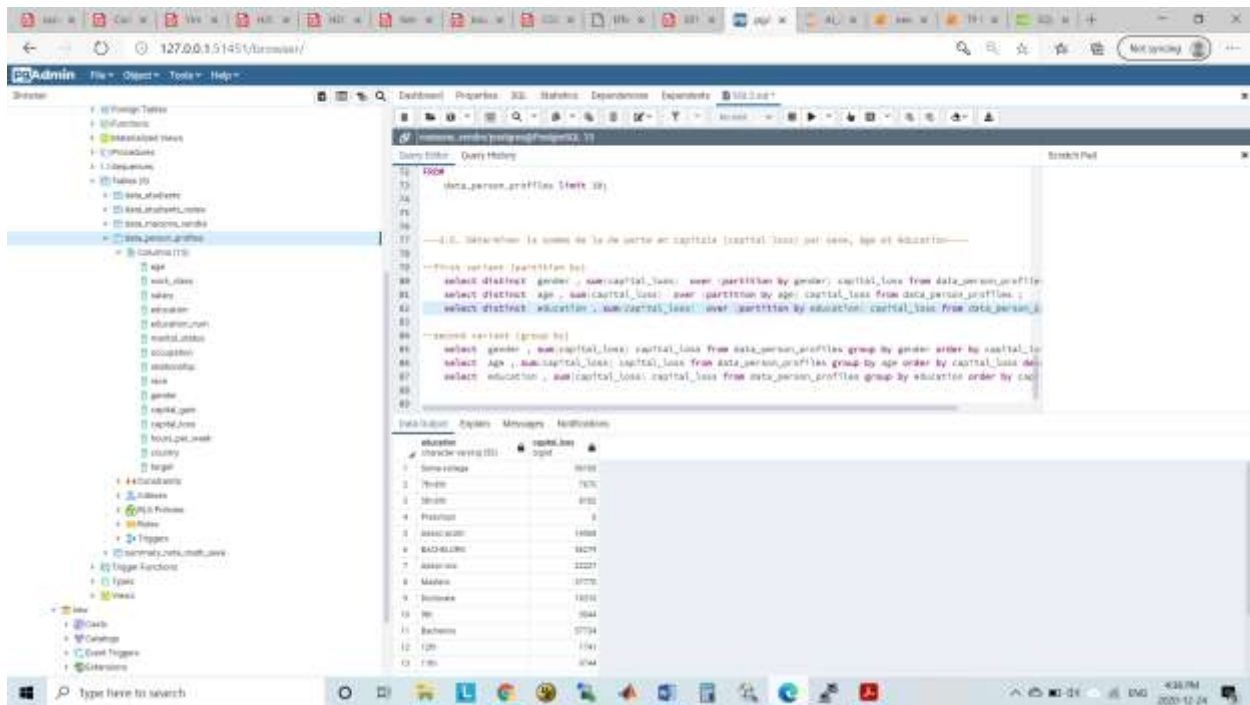
```



select distinct age , sum(capital_loss) over (partition by age)
capital_loss from data_person_profiles ;



select distinct education , sum(capital_loss) over (partition by
education) capital_loss from data_person_profiles ;



```

--second variant (group by)
select gender , sum(capital_loss) capital_loss from
data_person_profiles group by gender order by capital_loss desc;;
select age , sum(capital_loss) capital_loss from
data_person_profiles group by age order by capital_loss desc;;
select education , sum(capital_loss) capital_loss from
data_person_profiles group by education order by capital_loss desc;

```