

Bazy danych

--Zad 1

```
select min(placa_pod) as minimum, max(placa_pod) as maksimum, (max(placa_pod) -  
min(placa_pod)) as roznica  
from pracownicy
```

--Zad 2

```
select etat, avg(placa_pod) as srednia  
from pracownicy  
group by etat  
order by srednia desc
```

--Zad 3

```
select count(*) as profesorowie  
from pracownicy  
group by etat  
having etat = 'PROFESOR'
```

--Zad 4

```
select id_zesp, (sum(placa_pod) + sum(placa_dod)) as sumaryczne_place  
from pracownicy  
group by id_zesp  
order by id_zesp asc
```

--Zad 5

```
select max((sum(placa_pod) + sum(placa_dod))) as maks_sum_placa  
from pracownicy  
group by id_zesp
```

--Zad 6

```
select id_szefa, min(placa_pod) as minimalna  
from pracownicy  
where id_szefa is not null  
group by id_szefa  
order by minimalna desc
```

--Zad 7

```
select id_zesp, count(*) as ilu_pracuje  
from pracownicy  
group by id_zesp  
order by ilu_pracuje desc
```

--Zad 8

```
select id_zesp, count(*) as ilu_pracuje
from pracownicy
group by id_zesp
having count(*) > 3
order by ilu_pracuje desc
```

--Zad 9

```
select count(id_prac) as ile
from pracownicy
group by id_prac
having count(id_prac) > 2
```

--Zad 10

```
select etat, avg(placa_pod) as srednia, count(*) as liczba
from pracownicy
where zatrudniony < DATE '1990-01-01'
group by etat
order by etat
```

--Zad 11

```
select id_zesp, etat, round(avg(placa_pod + coalesce(placa_dod,0)),0) as srednia,
round(max(placa_pod + coalesce(placa_dod, 0)),0) as maksymalna
from pracownicy
where etat = 'PROFESOR' or etat = 'ASYSTENT'
group by etat, id_zesp
order by id_zesp asc, etat
```

--Zad 12

```
select extract(year from zatrudniony) as rok, count(*) as ilu_pracownikow
from pracownicy
group by extract(year from zatrudniony)
order by extract(year from zatrudniony)
```

--Zad 13

```
select length(nazwisko) as ile_liter, count(*) as w_ilu_naswiskach
from pracownicy
group by length(nazwisko)
order by ile_liter asc
```

--Zad 14

```
select count(*) as ile_nazwisk_z_A
from pracownicy
where nazwisko like '%A%'
```

--Zad 15

```
select count(case when nazwisko like '%A%' then nazwisko end) as ile_nazwisk_z_A,  
       count(case when nazwisko like '%E%' then nazwisko end) as ile_nazwisk_z_E  
from pracownicy
```

--Zad 16

```
select id_zesp, sum(placa_pod) as suma_plac,  
       LISTAGG(nazwisko || ':' || placa_pod, ';')  
       WITHIN GROUP (order by nazwisko) as pracownicy  
from pracownicy  
group by id_zesp  
order by id_zesp asc
```