1. soal 1

select regions.region\_name, count(departments.department\_id) as department\_count

from regions

left join countries on regions.region\_id = countries.region\_id

left join locations on countries.country\_id = locations.country\_id

left join departments on locations.location\_id = departments.location\_id

group by regions.region\_name

order by regions.region\_name;

1. soal 2

select countries.country\_name, count(departments.department\_id) as num\_departments

from countries

left join locations on countries.country\_id = locations.country\_id

left join departments on locations.location\_id = departments.location\_id

group by countries.country\_name;

1. soal 3

select departments.department\_name, count(\*) as jumlah\_employees

from employees

join departments on employees.department\_id = departments.department\_id

group by departments.department\_name;

1. soal 4

select r.region\_name, count(e.employee\_id) as employee\_count

from regions r

inner join countries c on r.region\_id = c.region\_id

inner join locations l on c.country\_id = l.country\_id

inner join departments d on l.location\_id = d.location\_id

inner join employees e on d.department\_id = e.department\_id

group by r.region\_name;

1. soal 5

select c.country\_name, count(e.employee\_id) as total\_employee

from employees e

join departments d on e.department\_id = d.department\_id

join locations l on d.location\_id = l.location\_id

join countries c on l.country\_id = c.country\_id

group by c.country\_name;

1. soal 6

select departments.department\_name, max(employees.salary)

from employees

join departments on employees.department\_id = departments.department\_id

group by departments.department\_name;

1. soal 7

select departments.department\_name, min(employees.salary)

from employees

join departments on employees.department\_id = departments.department\_id

group by departments.department\_name;

1. soal 8

select departments.department\_name, avg(employees.salary)

from employees

join departments on employees.department\_id = departments.department\_id

group by departments.department\_name;

1. soal 9

select d.department\_name, count(\*) as jumlah\_mutasi

from departments d

join employees e on d.department\_id = e.department\_id

join job\_history j on e.employee\_id = j.employee\_id

group by d.department\_name;

1. soal 10

select j.job\_title, count(\*) as jumlah\_mutasi

from job\_history jh

inner join employees e on jh.employee\_id = e.employee\_id

inner join jobs j on e.job\_id = j.job\_id

group by j.job\_title;

1. soal 11

select concat(first\_name, ' ', last\_name) as employee\_name, count(\*) as num\_of\_mutations

from job\_history

join employees on job\_history.employee\_id = employees.employee\_id

group by employee\_name

order by num\_of\_mutations desc;

1. soal 12

select job\_title, count(\*) as employee\_count

from employees

join jobs on employees.job\_id = jobs.job\_id

group by jobs.job\_title;

1. soal 13

select d.department\_name, e.first\_name || ' ' || e.last\_name as employee\_name, e.hire\_date

from employees e

join departments d on e.department\_id = d.department\_id

where hire\_date = (select min(hire\_date) from employees where department\_id = e.department\_id);

1. soal 14

select d.department\_name, e.first\_name || ' ' || e.last\_name as employee\_name, e.hire\_date

from employees e

join departments d on e.department\_id = d.department\_id

where hire\_date = (select max(hire\_date) from employees where department\_id = e.department\_id);

1. soal 15

select e.first\_name || ' ' || e.last\_name as employee\_name,

extract(year from age(now(), e.hire\_date)) as years\_worked,

count(\*) as num\_of\_mutations

from job\_history j

join employees e on j.employee\_id = e.employee\_id

group by e.first\_name, e.last\_name, years\_worked

order by num\_of\_mutations desc;