21BDS0340

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Database Management Systems Lab

Exercise – IV

1. How many different departments are there in the ‘employee’ table

Command:

select distinct dept from employee\_bds0340;

Output:



1. For each department display the minimum and maximum salaries

Command:

select dept, min(salary), max(salary) from employee\_bds0340 group by dept;

Output:

A black screen with white text

Description automatically generated with low confidence

1. Print the average annual salary

Command:

select avg(salary) from employee\_bds0340;

Output:

A black screen with white text

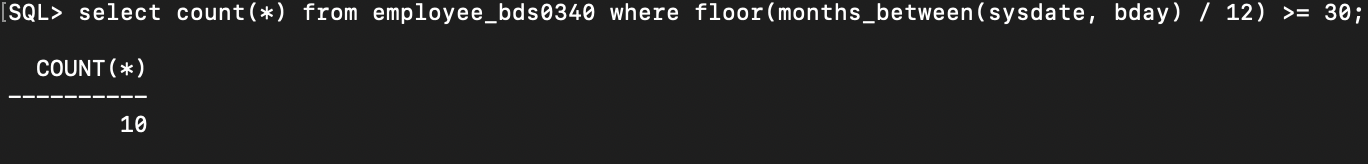
Description automatically generated with low confidence

1. Count the number of employees over age 30

Command:

select count(\*) from employee\_bds0340 where floor(months\_between(sysdate, bday) / 12) >= 30;

Output:



1. Print the department name and average salary of each department

Command:

select d.name, avg(e.salary) from employee\_bds0340 e join department\_bds0340 d on e.dept = d.num group by d.name;

Output:

A screen shot of a computer

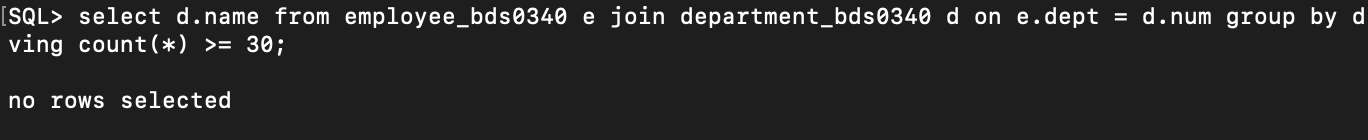
Description automatically generated with low confidence

1. Display the department name which contains more than 30 employees

Command:

select d.name from employee\_bds0340 e join department\_bds0340 d on e.dept = d.num group by d.name having count(\*) >= 30;

Output:

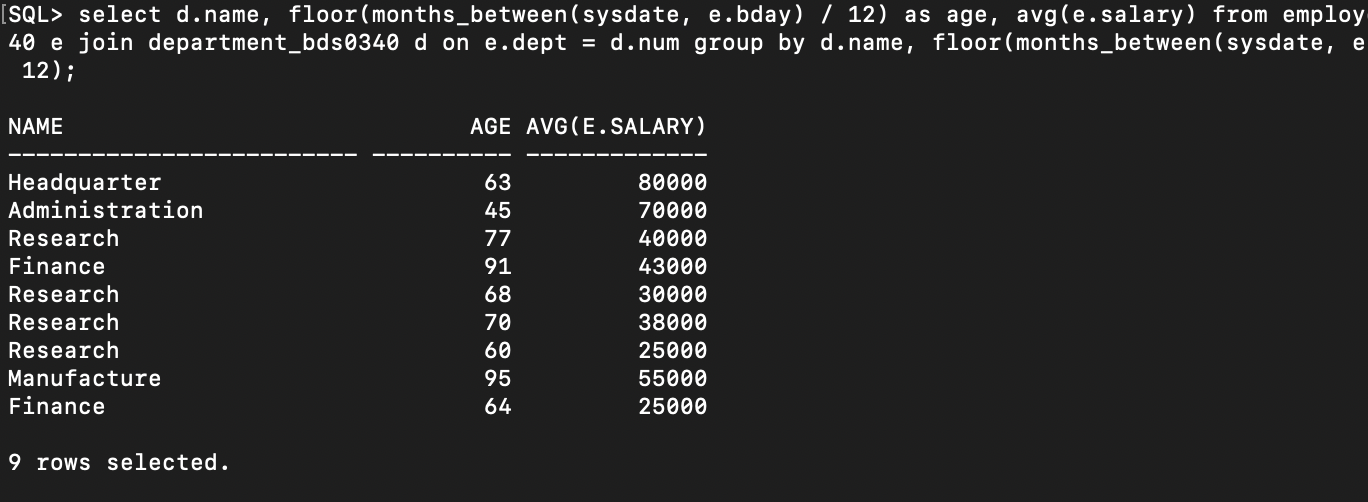


1. Calculate the average salary of employees by department and age

Command:

select d.name, floor(months\_between(sysdate, e.bday) / 12) as age, avg(e.salary) from employee\_bds0340 e join department\_bds0340 d on e.dept = d.num group by d.name, floor(months\_between(sysdate, e.bday) / 12);

Output:



1. Count separately the number the number of employees in the research and finance department

Command:

select d.name, count(\*) from employee\_bds0340 e join department\_bds0340 d on e.dept = d.num where d.name in ('Research', 'Finance') group by d.name;

Output:

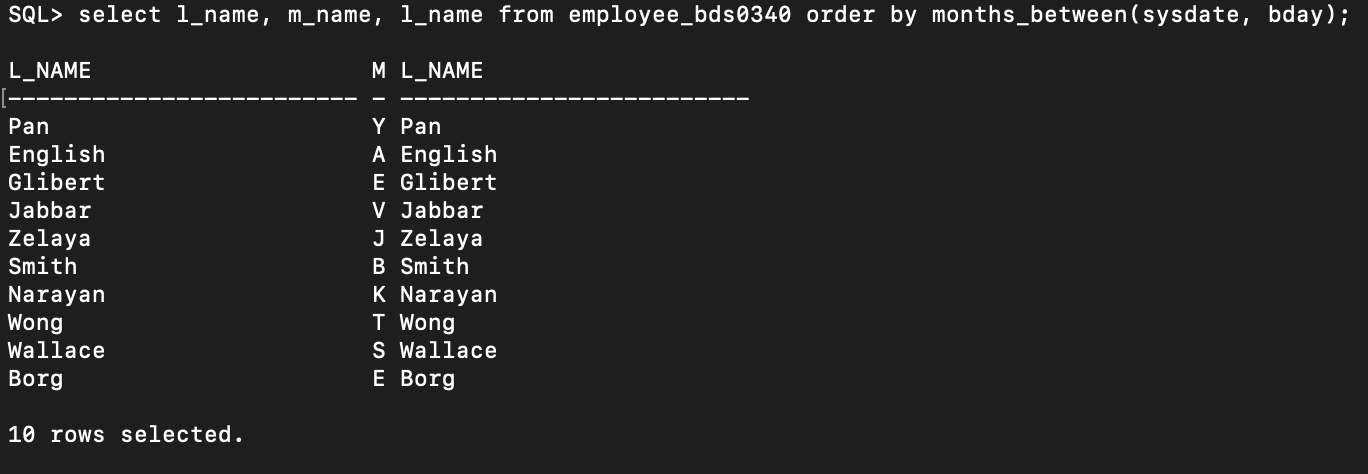


1. List out all the employees based on seniority

Command:

select l\_name, m\_name, l\_name from employee\_bds0340 order by months\_between(sysdate, bday);

Output:



1. List out all the employees who works in manufacturing department and group by first name

Command:

select f\_name from employee\_bds0340 where dept = (select num from department\_bds0340 where name = 'Manufacture') order by f\_name;

Output:

