### SQL CASE STUDY



### **Analyzing Starbucks Employee Data Using SQL**

#### 1. Understanding Employee Demographics:

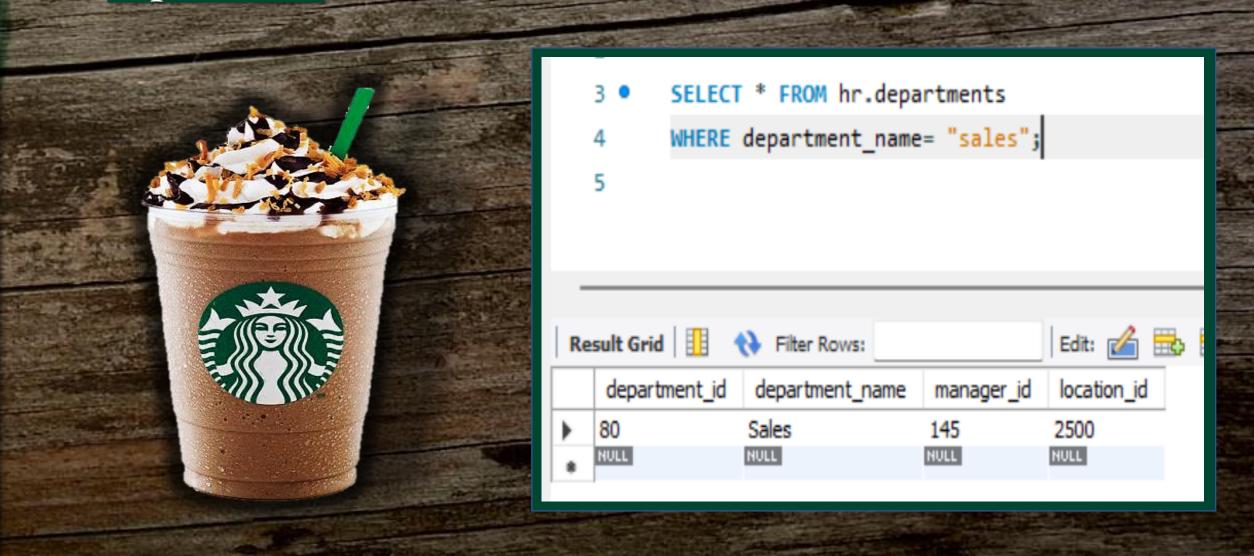
Analyze the composition of the workforce, including age, gender, and tenure, to understand Starbucks's diversity and inclusion efforts.

#### 2. Workforce Distribution:

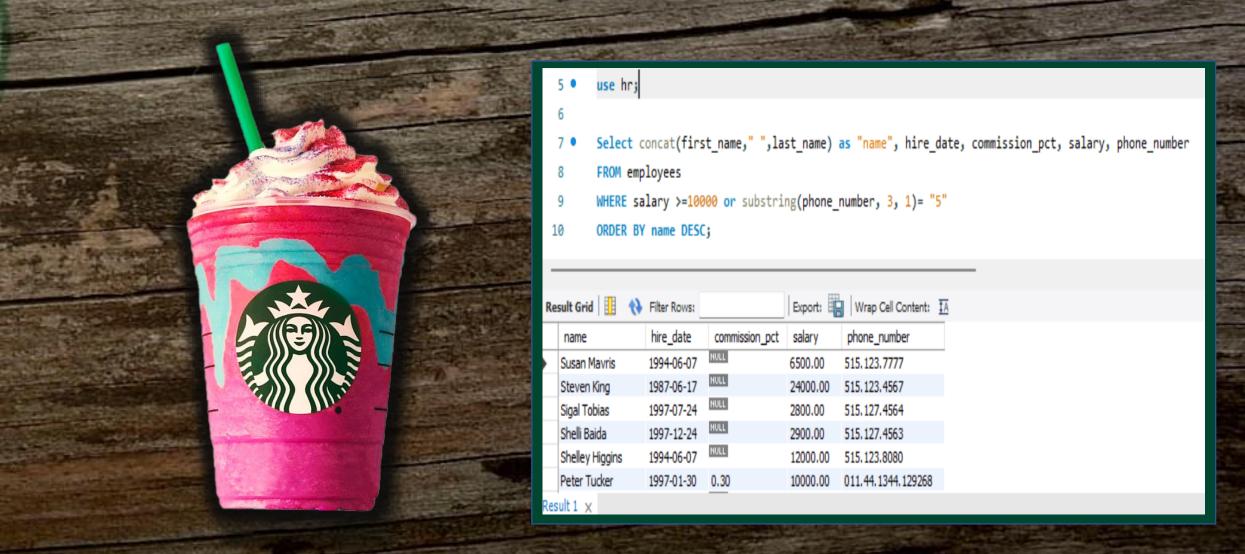
Examine how Starbucks distributes employees across various roles, locations, and departments.

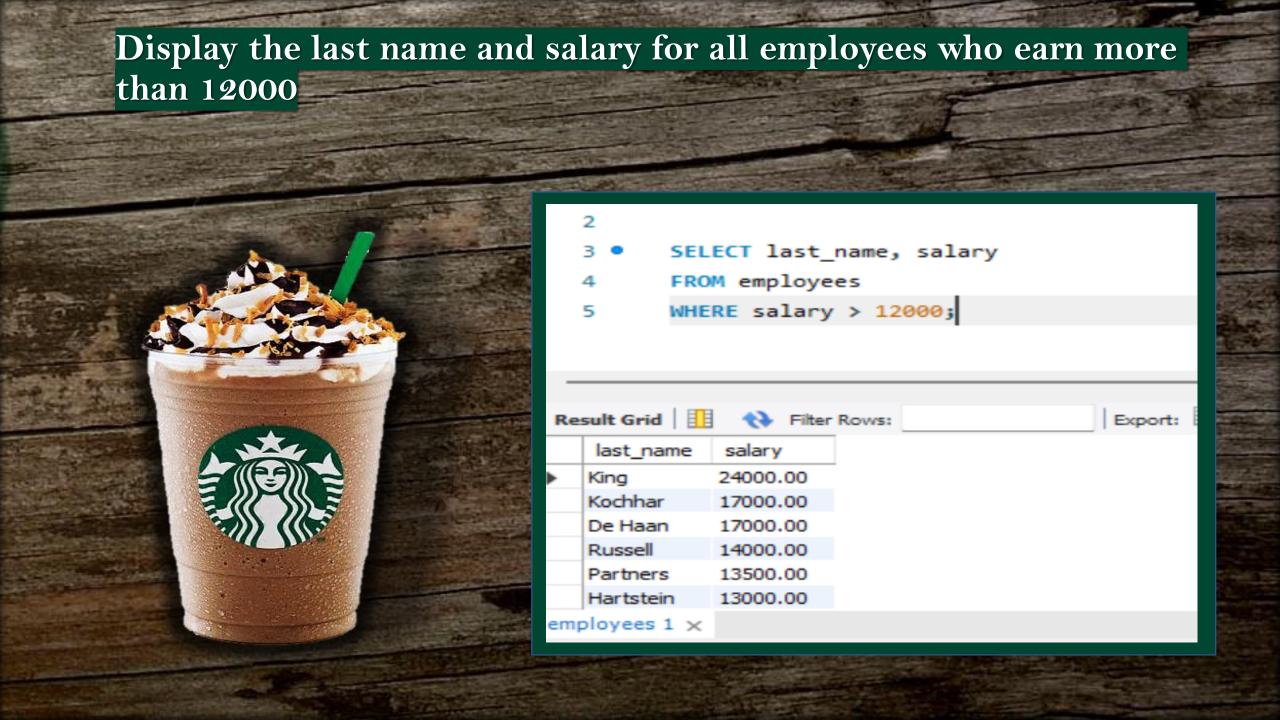
**By Shefali Datrange** 



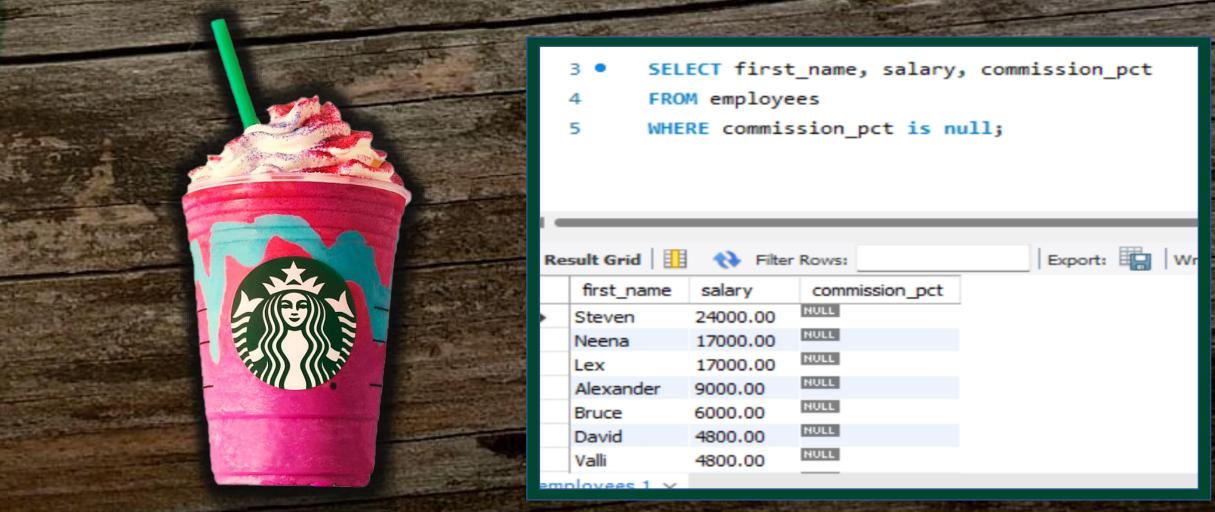


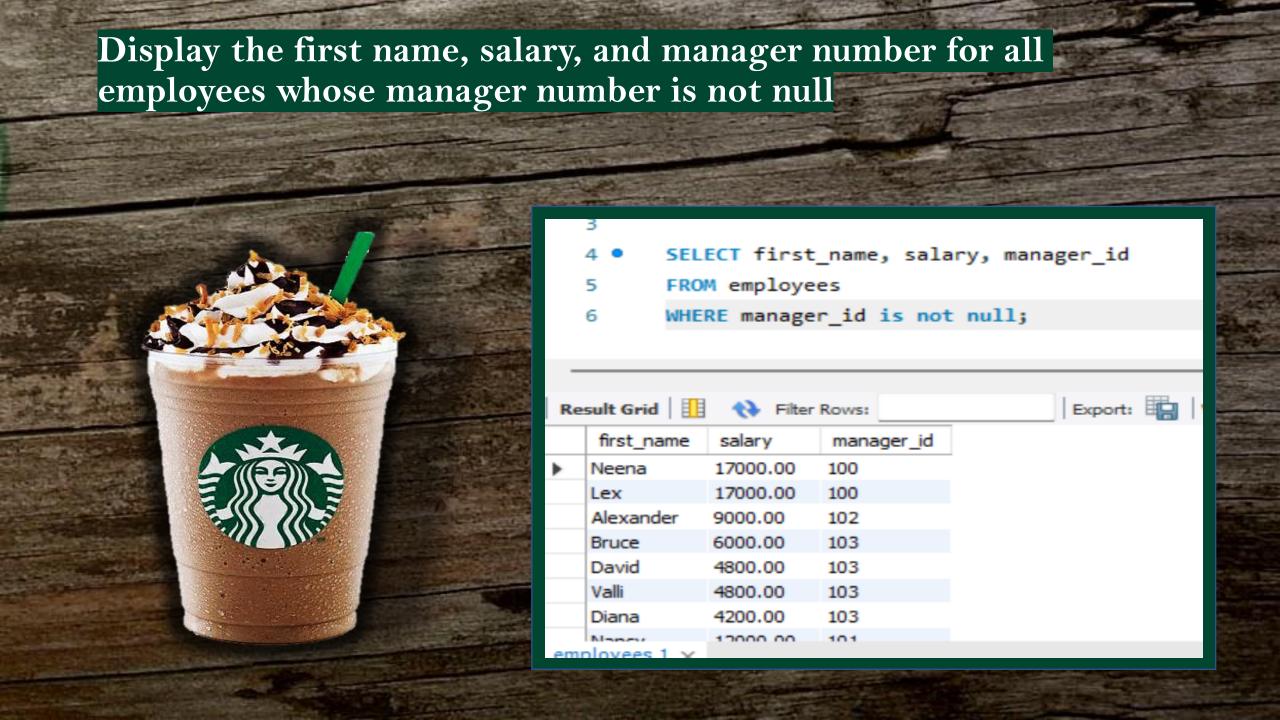
Display the first name concatenated with last name, hire date, commission percentage, telephone, and salary for all employees whose salary exceeds 10000 or the third digit in their phone number equals 5. Sort the query in descending order by the first name



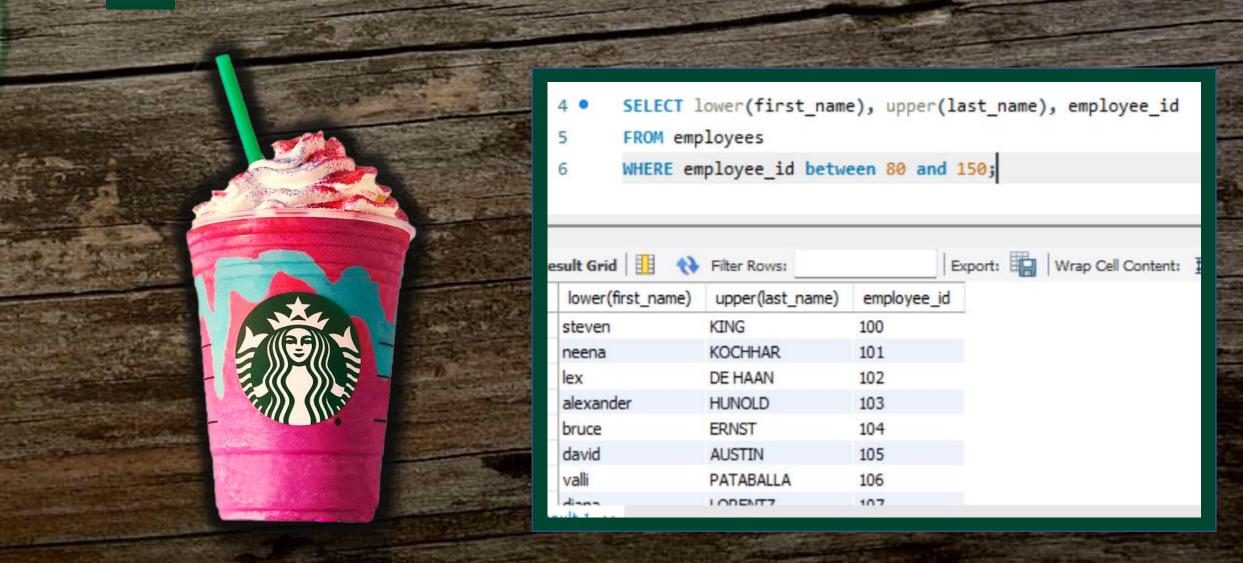










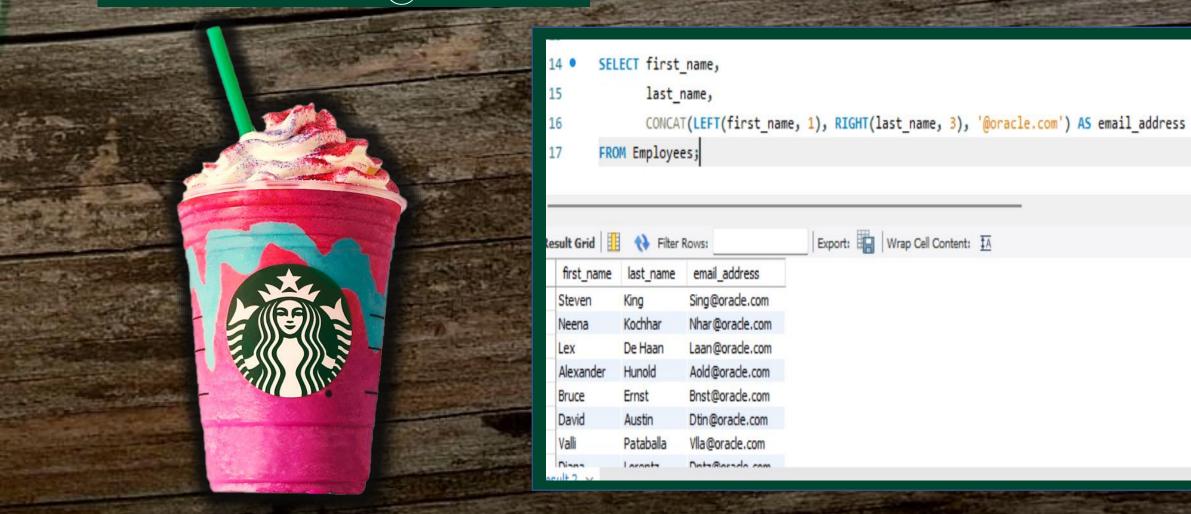


For each employee, display the first name, last name, and email address. The email address will be composed of the first letter of first name, concatenated with the three first letters of last name, concatenated with @oracle.com.

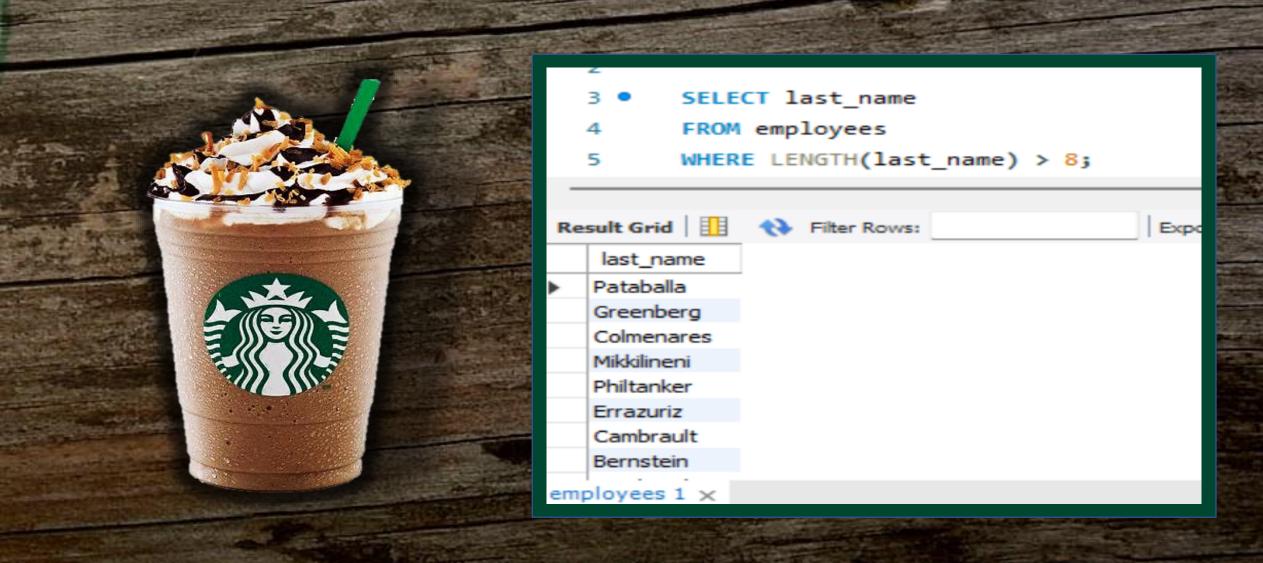


```
SELECT first name,
                 last name,
                 CONCAT(LEFT(first_name, 1), LEFT(last_name, 3), '@oracle.com') AS email_address
         FROM Employees;
                                             Export: Wrap Cell Content: TA
Result Grid Filter Rows:
   first name last name email address
                        SKin@oracle.com
  Steven
             Kochhar
                        NKoc@oracle.com
             De Haan
                        LDe @orade.com
             Hunold
                        AHun@oracle.com
                        BErn@oracle.com
             Ernst
                        DAus@oracle.com
             Austin
             Pataballa
                        VPat@oracle.com
                         Di ar Barada com
```

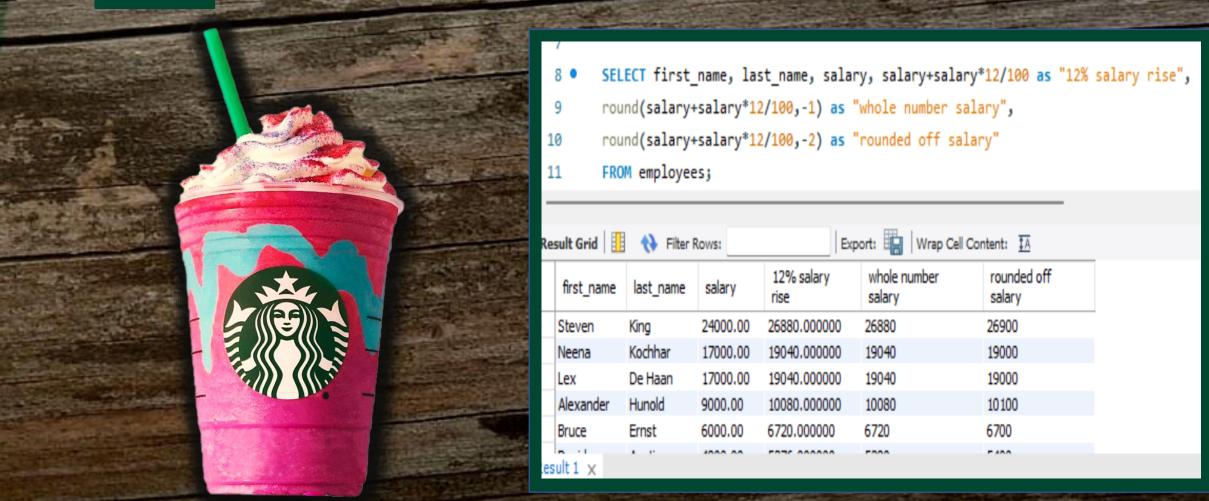
For each employee, display the first name, last name, and email address. The email—address will be composed from the first letter of first name, concatenated with the three last—letters of last name, concatenated with @oracle.com.



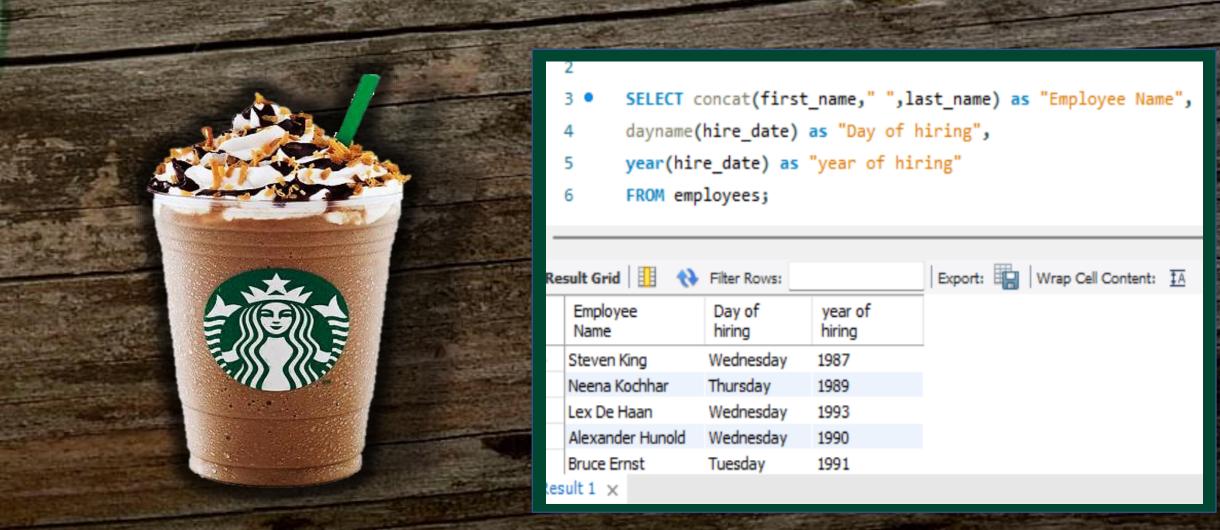




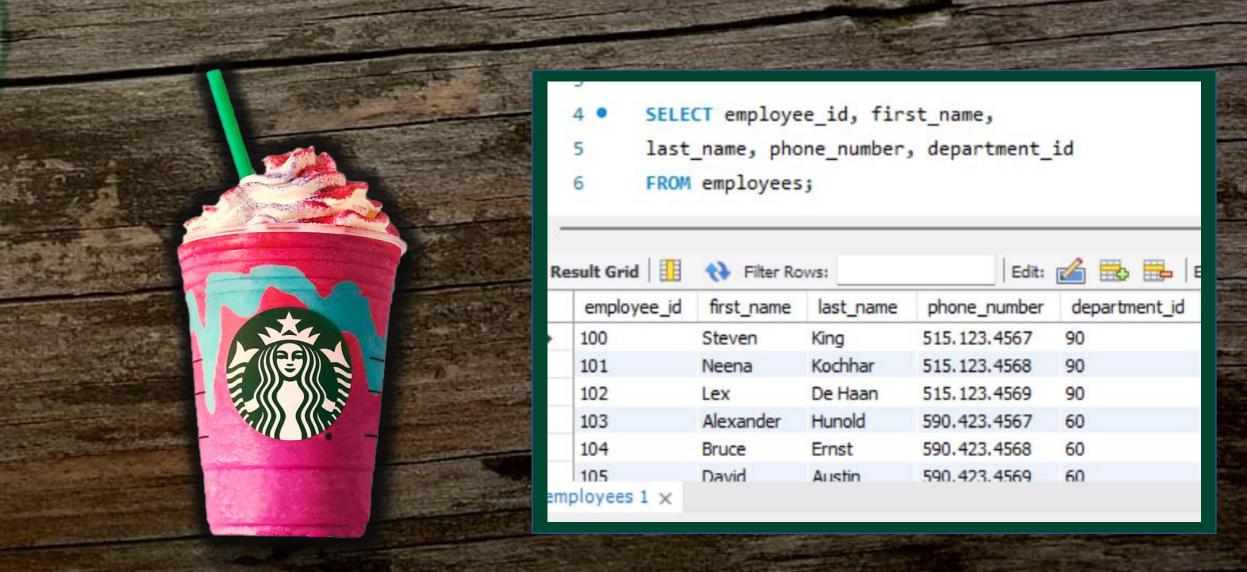
For each employee, display: a. first name b. salary c. salary after a raise of 12% d. salary after a raise of 12%, expressed as a whole number (ROUND) e. salary after a raise of 12%, round off to the nearest whole number.



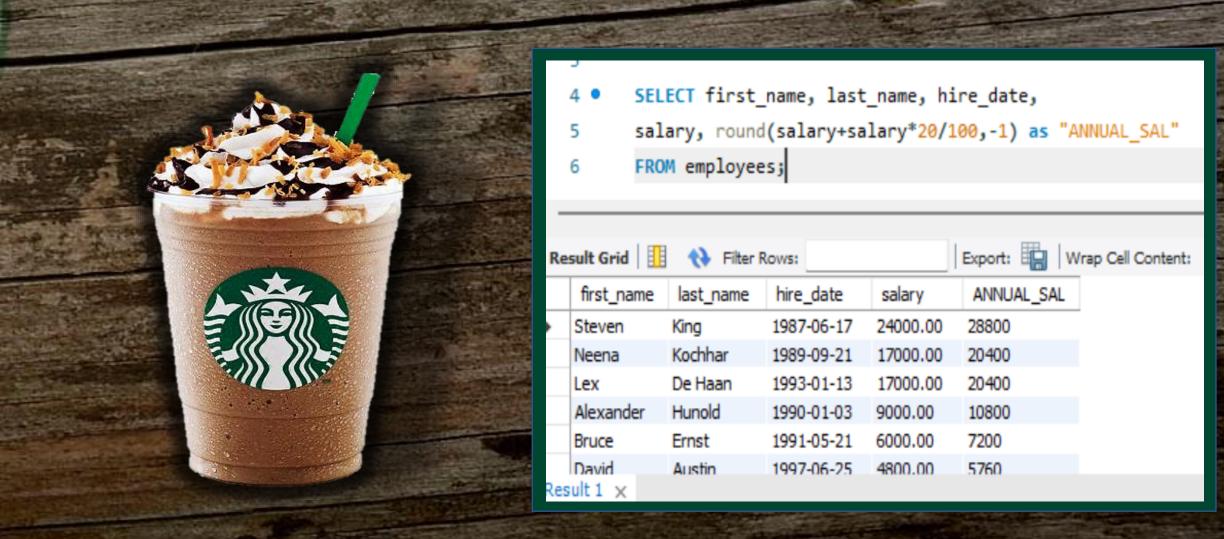


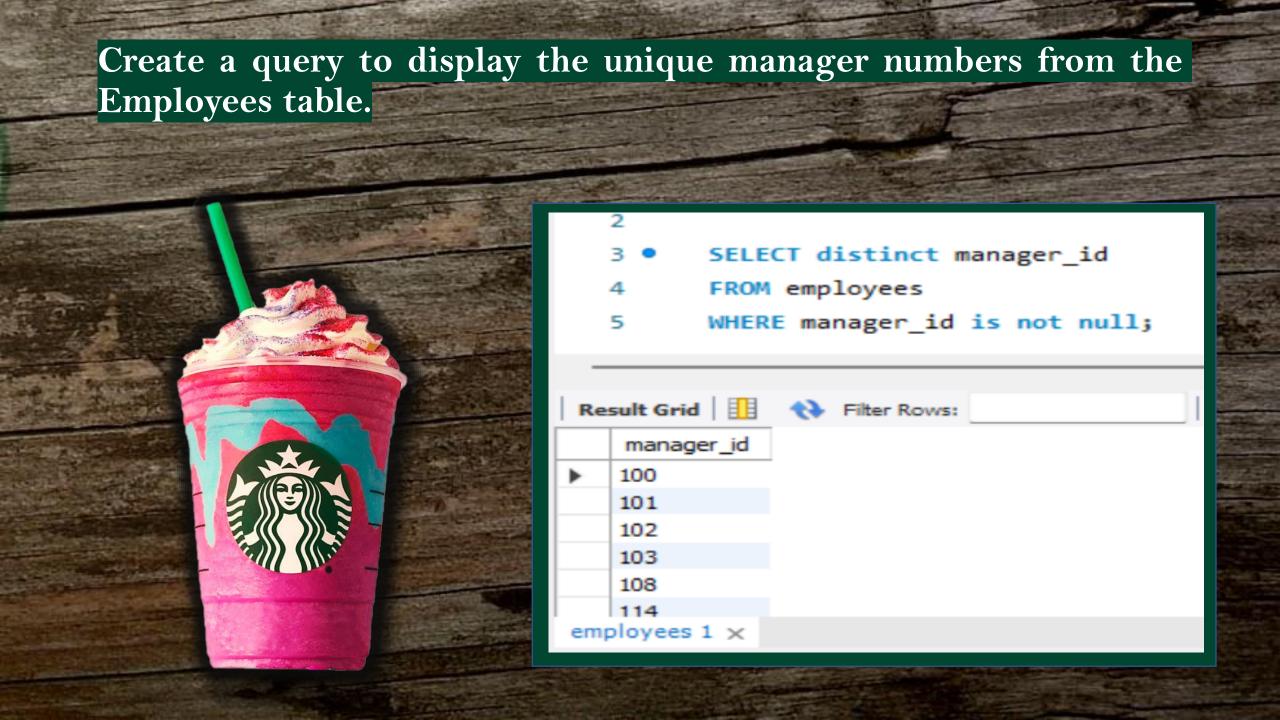




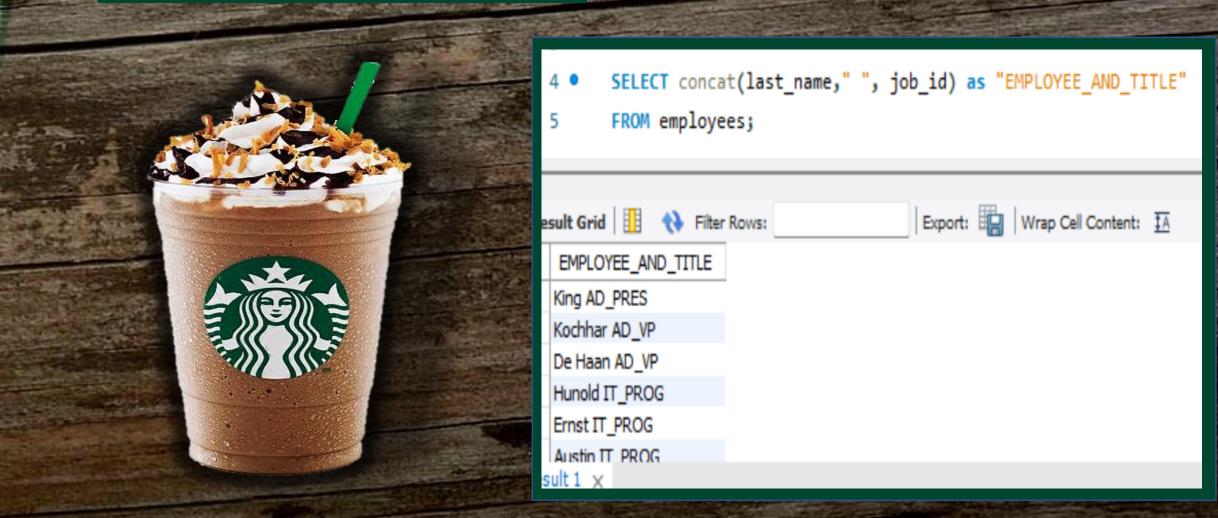


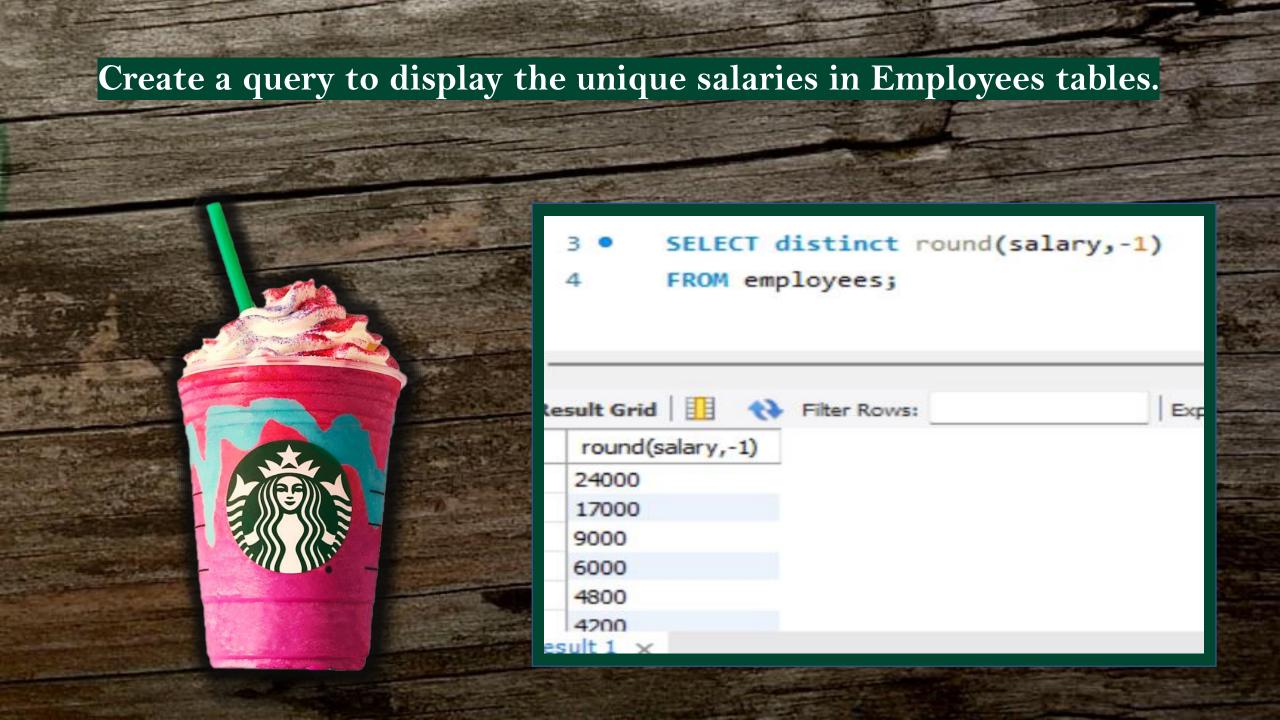
Create a query to display the first name, last name, hire date, salary, and salary after a raise of-- 20%. Name the last column (salary after a raise) heading as "ANNUAL\_SAL"

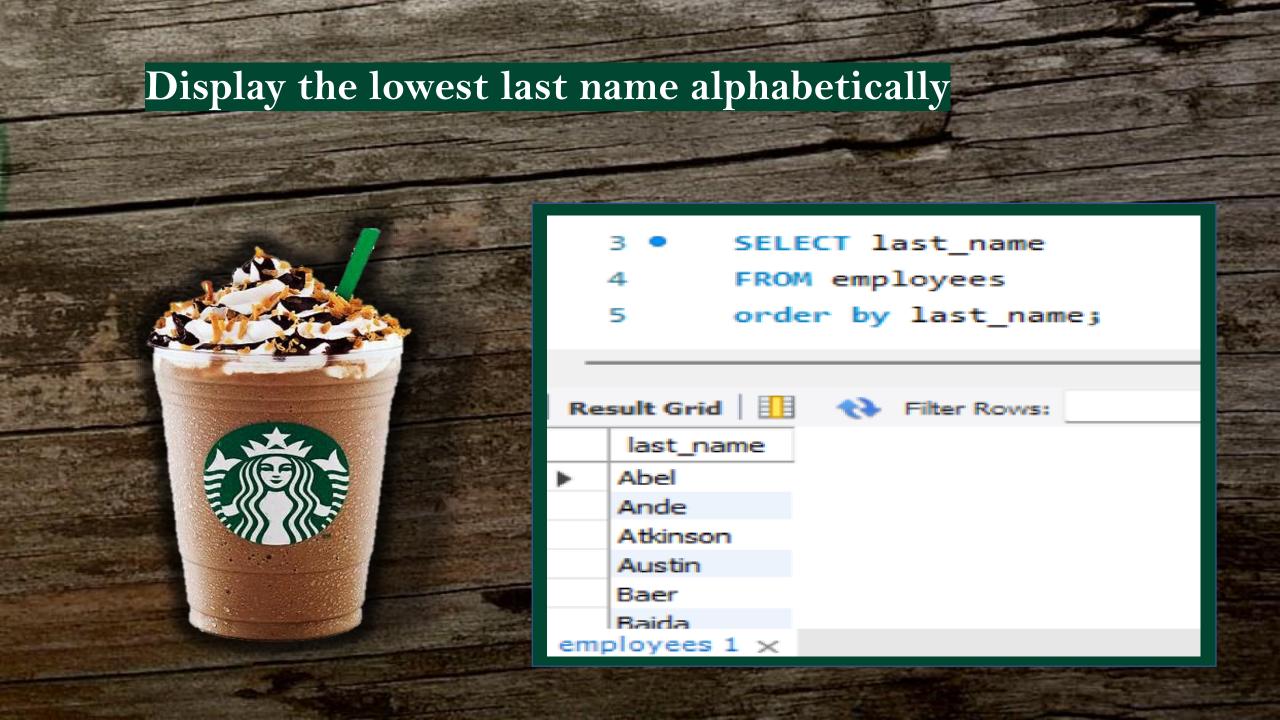


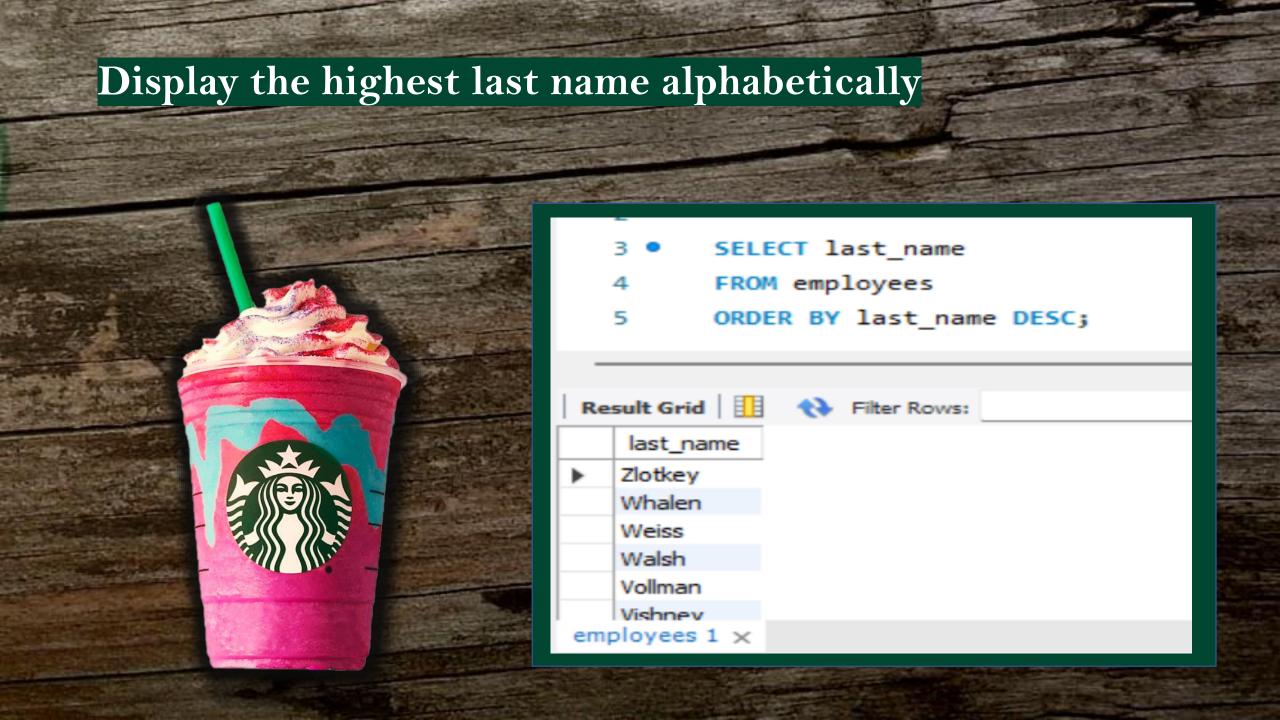


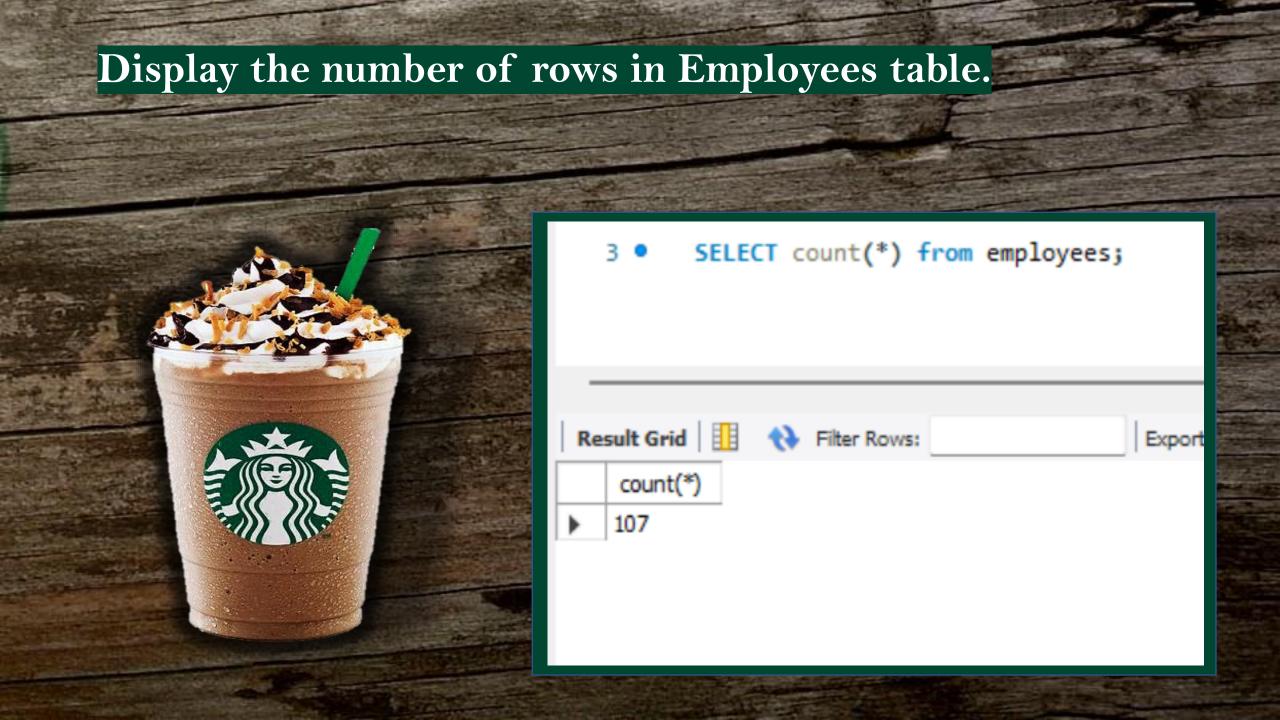
Create a query to display the last name concatenated with the job id column, separated by space.— Name this column heading as "EMPLOYEE\_AND\_TITLE".



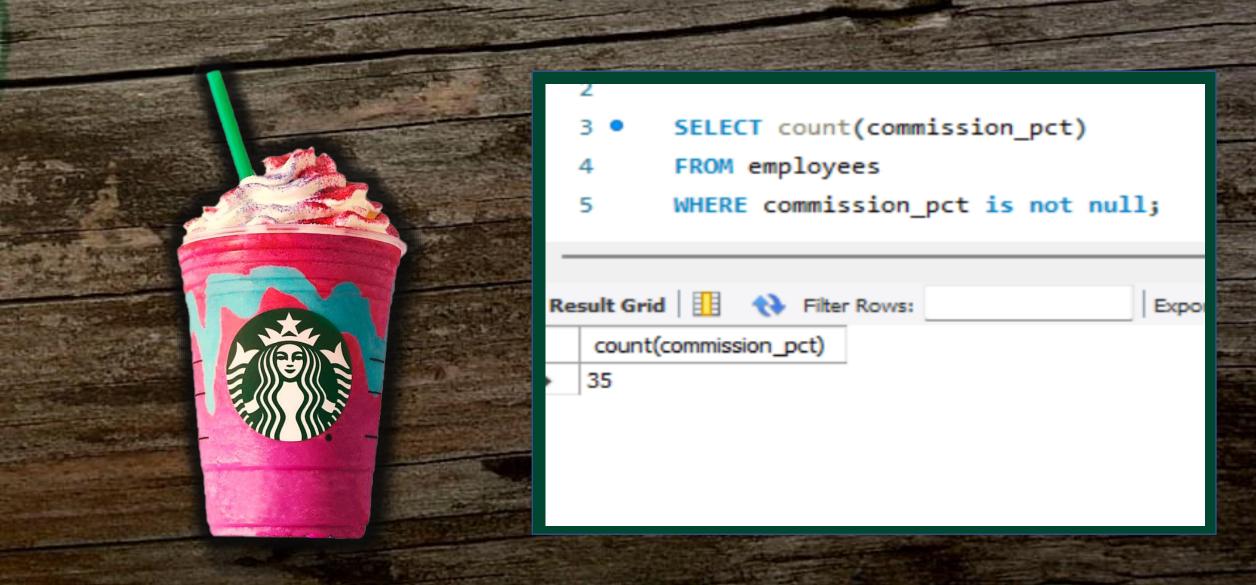




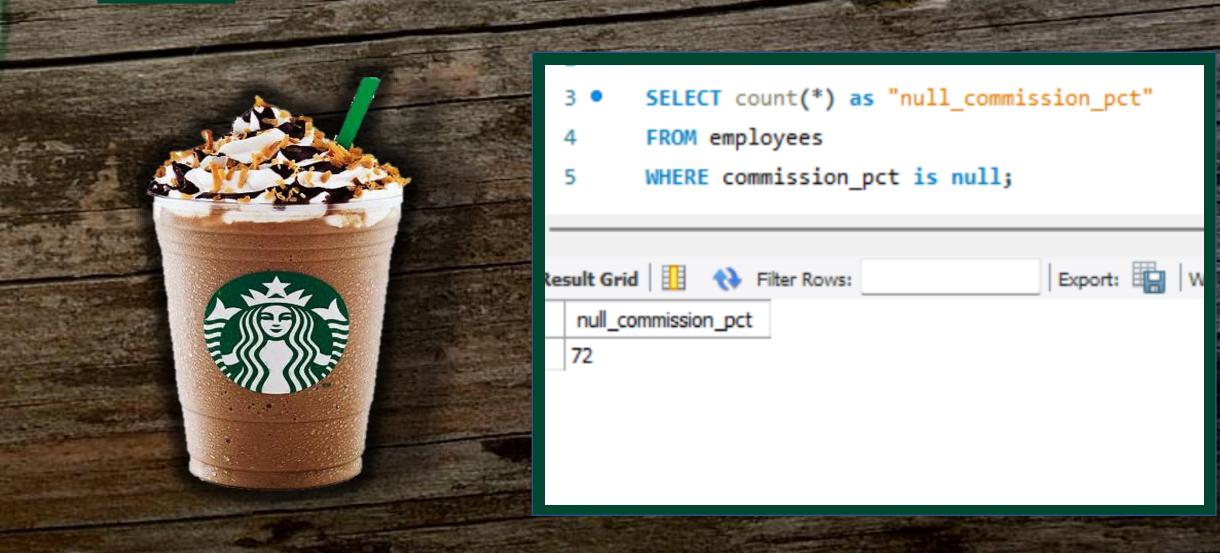




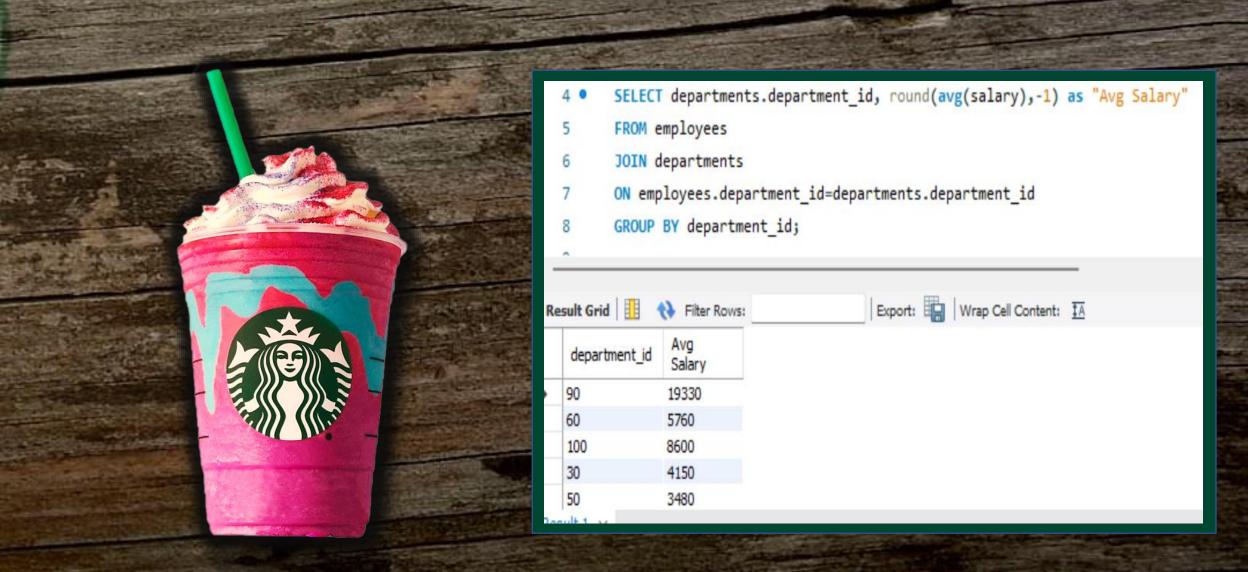








## Average salary per department a. Display the department number and average salary for each—department.

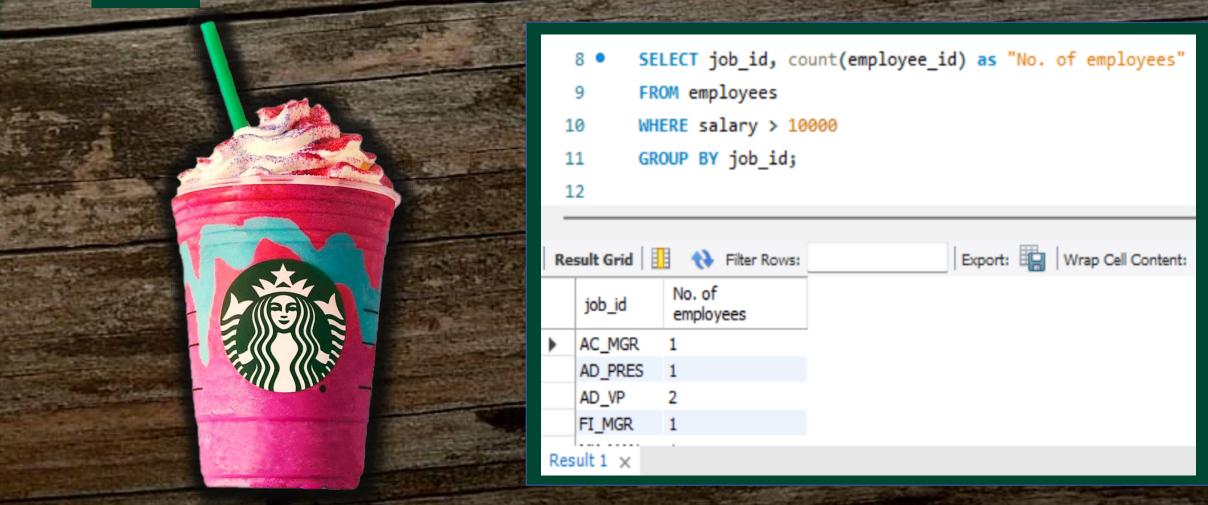


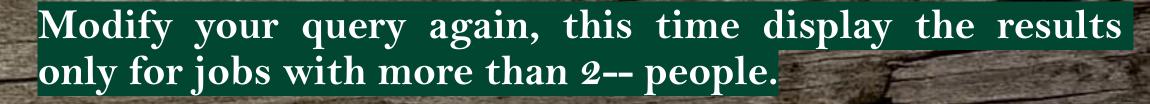
## Modify the previous query to display the results only for departments 50 or 80.

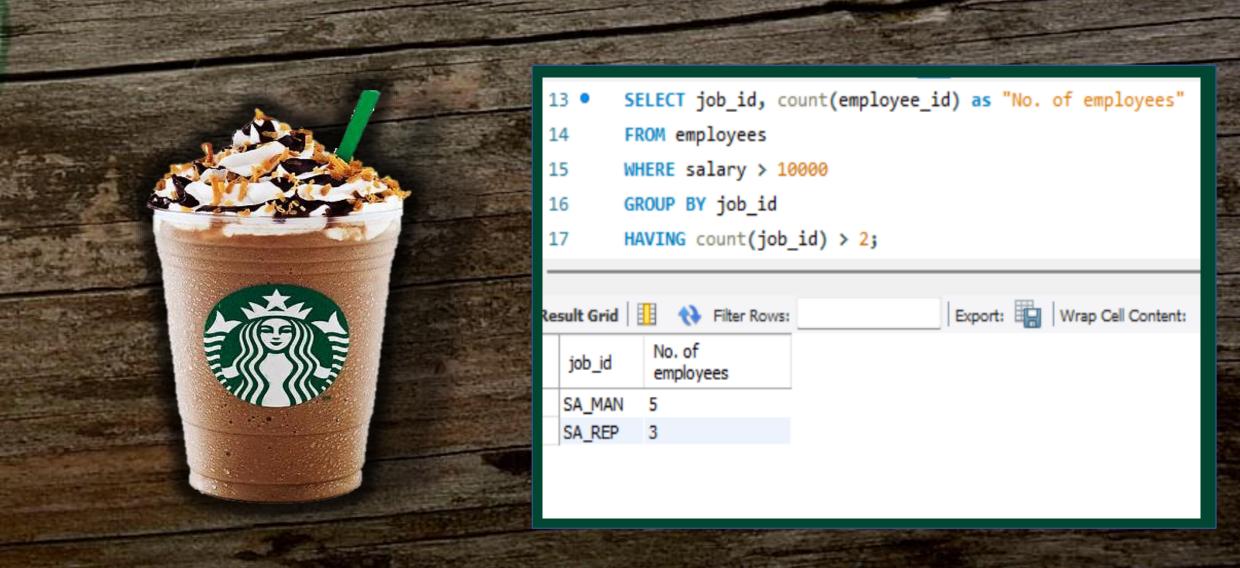


```
SELECT departments.department_id, round(avg(salary),-1) as "Avg Salary"
        FROM employees
        JOIN departments
        ON employees.department_id=departments.department_id
        GROUP BY department_id
        HAVING department_id=50 or department_id=80;
                                          Export: Wrap Cell Content: IA
Result Grid
              Filter Rows:
   department id
                Salary
               3480
```

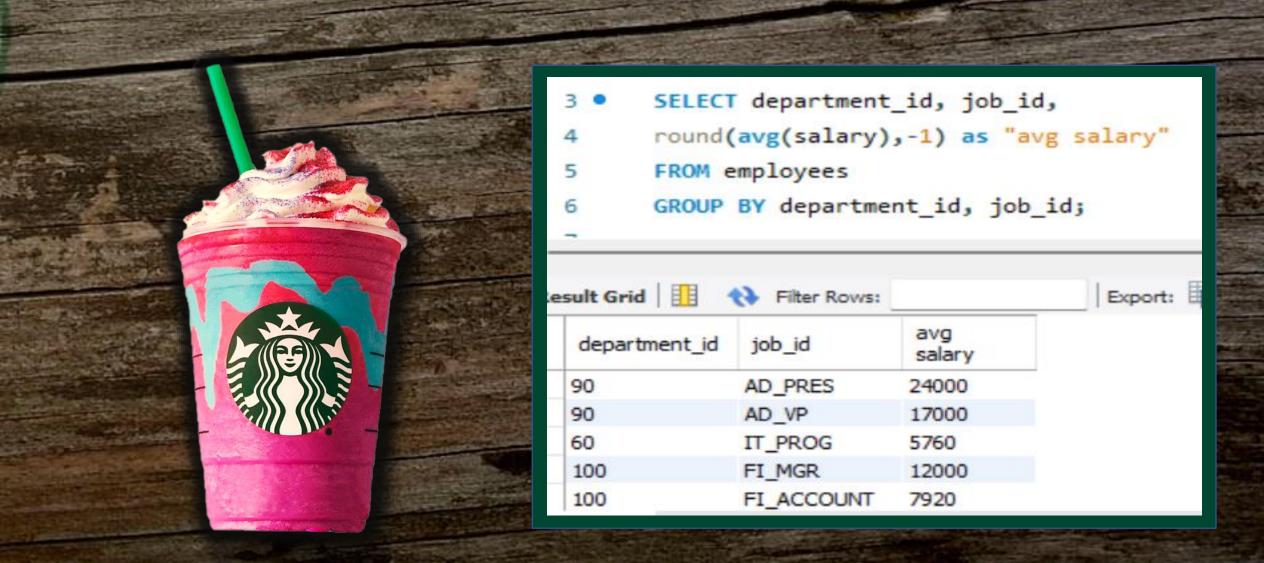
Number of employees per job id—a. Display the job id and the number of employees for each job id.—b. Modify your query to display the results only for employees whose salary is greater the—10000.



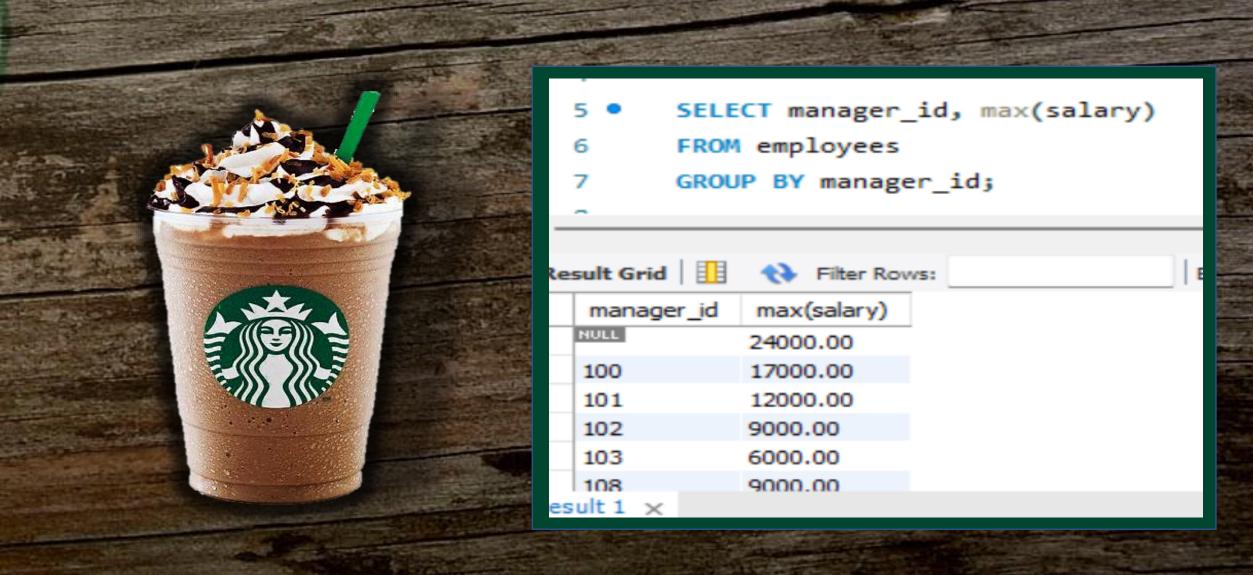




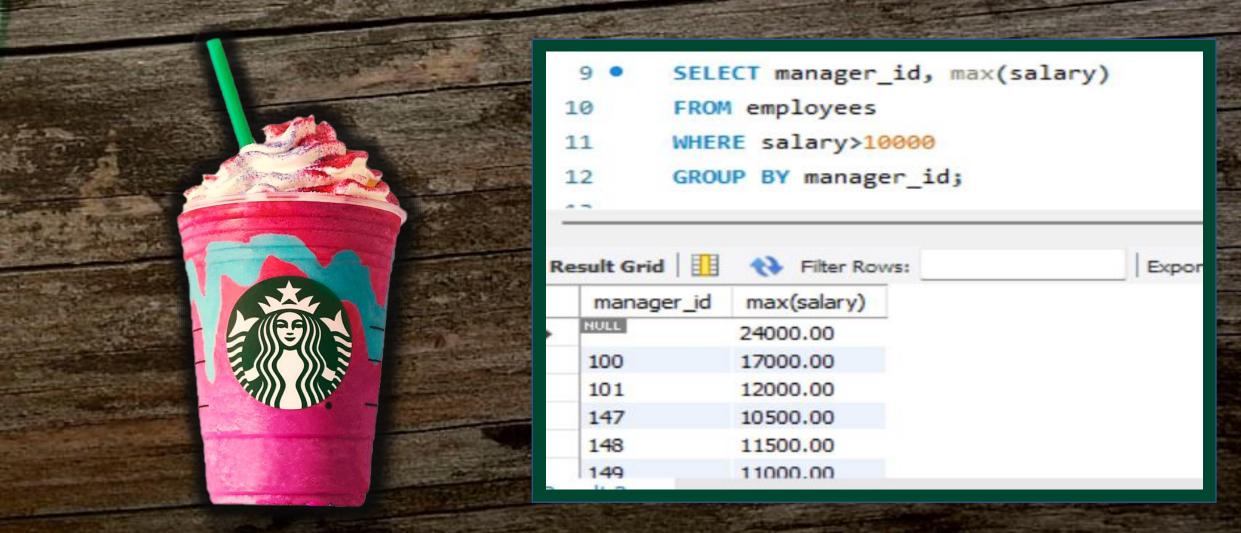
## Display the department number, job id, and the average salary for each department and job id.



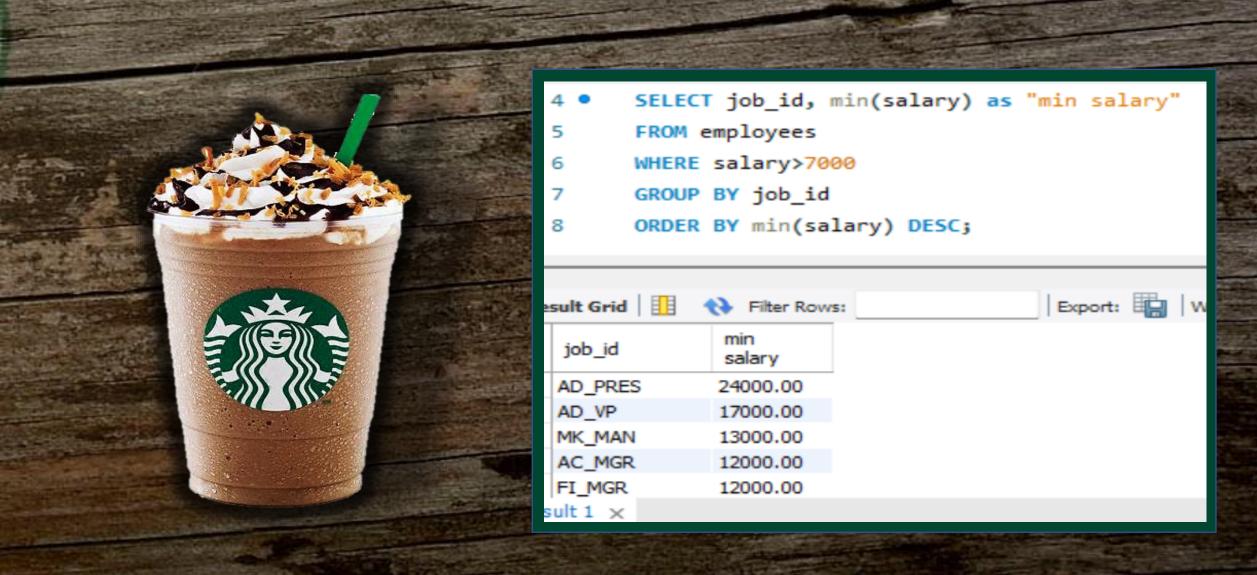




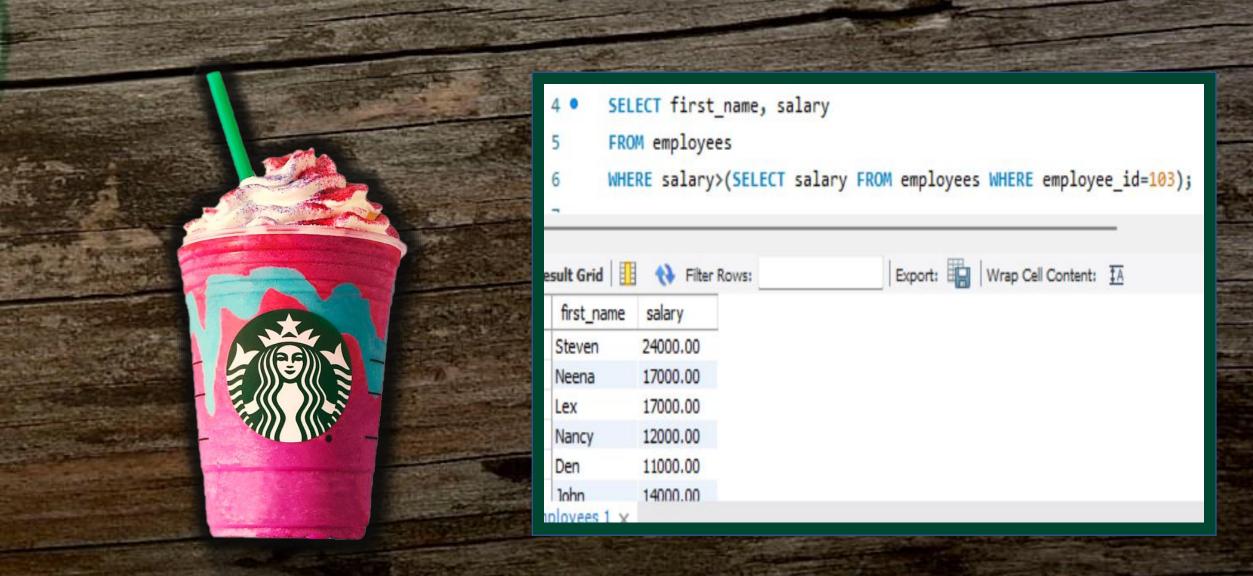
# Modify your query to display the results only for employees whose salary is greater than 10000



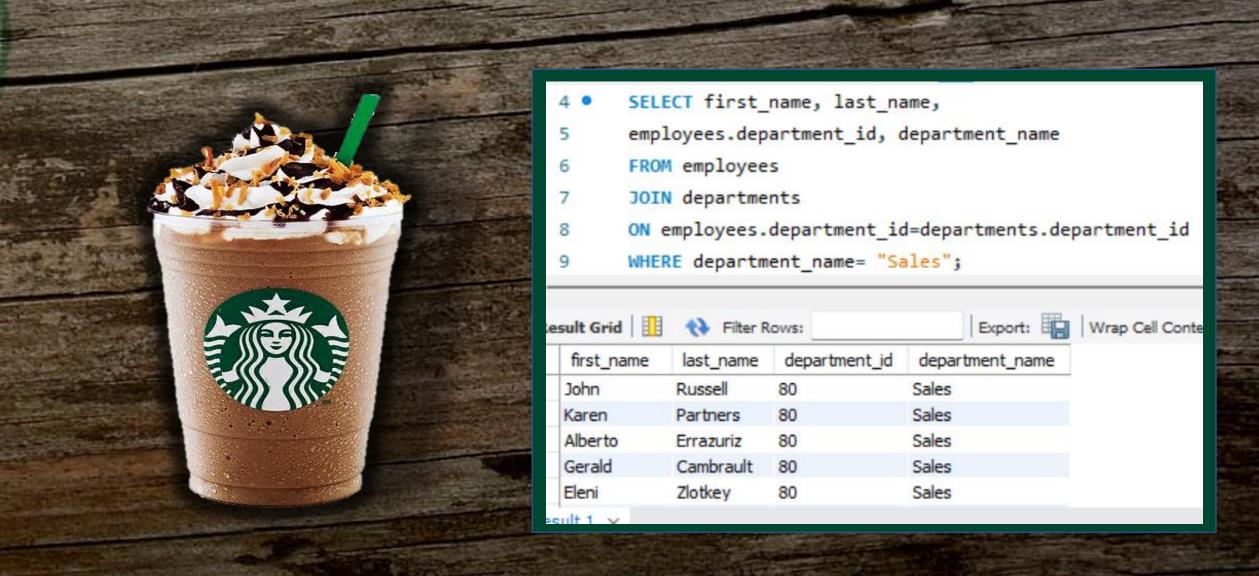
## Display the job id and minimum salary for each job id, for all jobs whose minimum salary is greater than 7000.



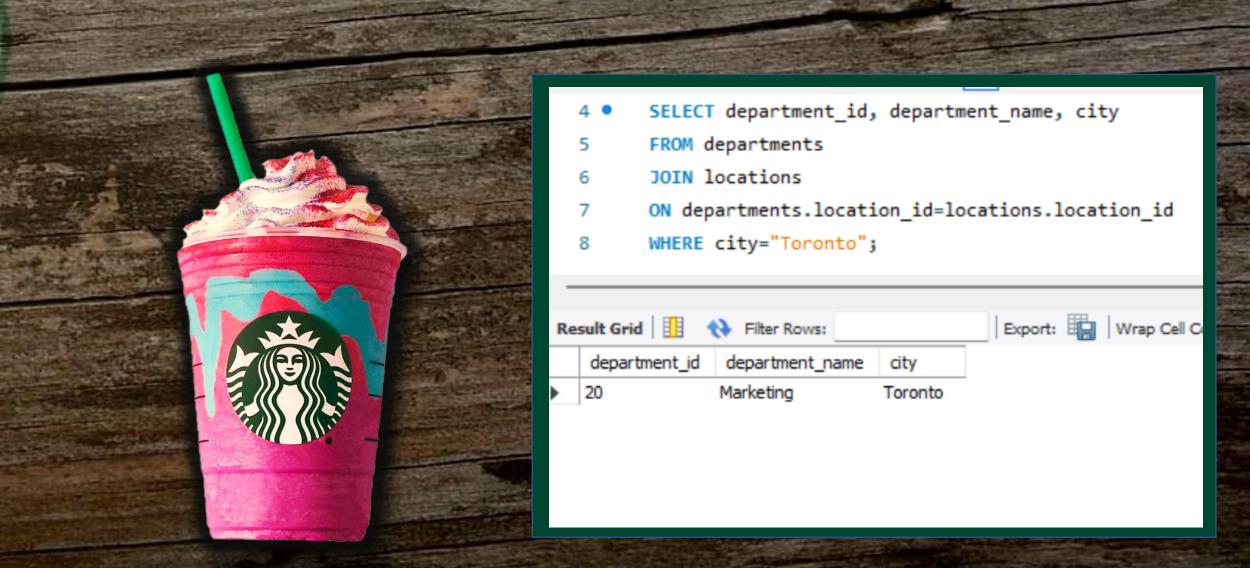
## Display the first name and salary for all employees who earn more than employee number 103

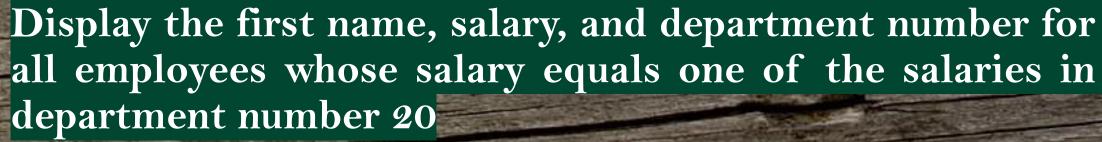


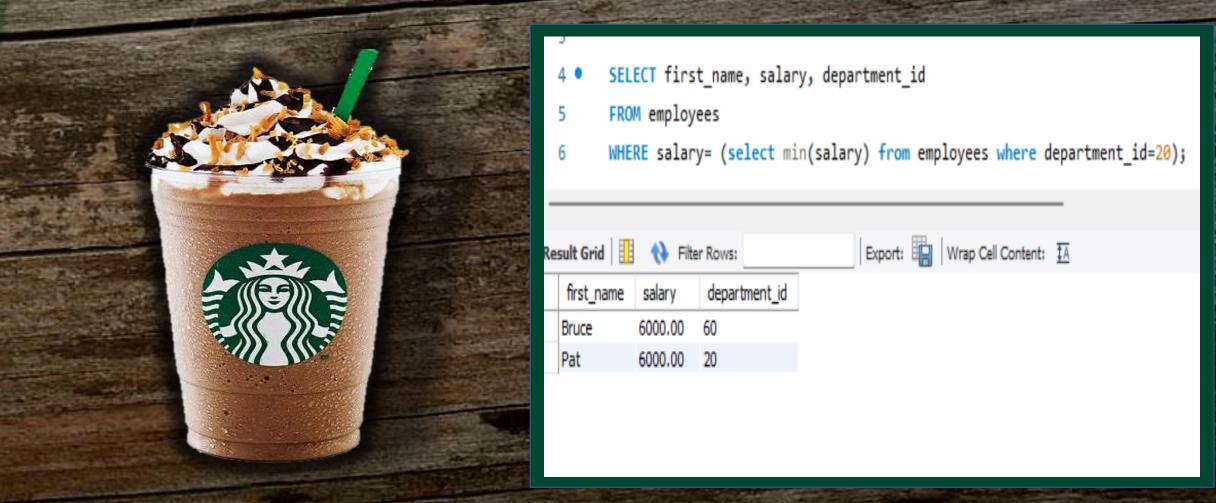
## Display the first name, last name, and department number for all employees who work in Sales-- department



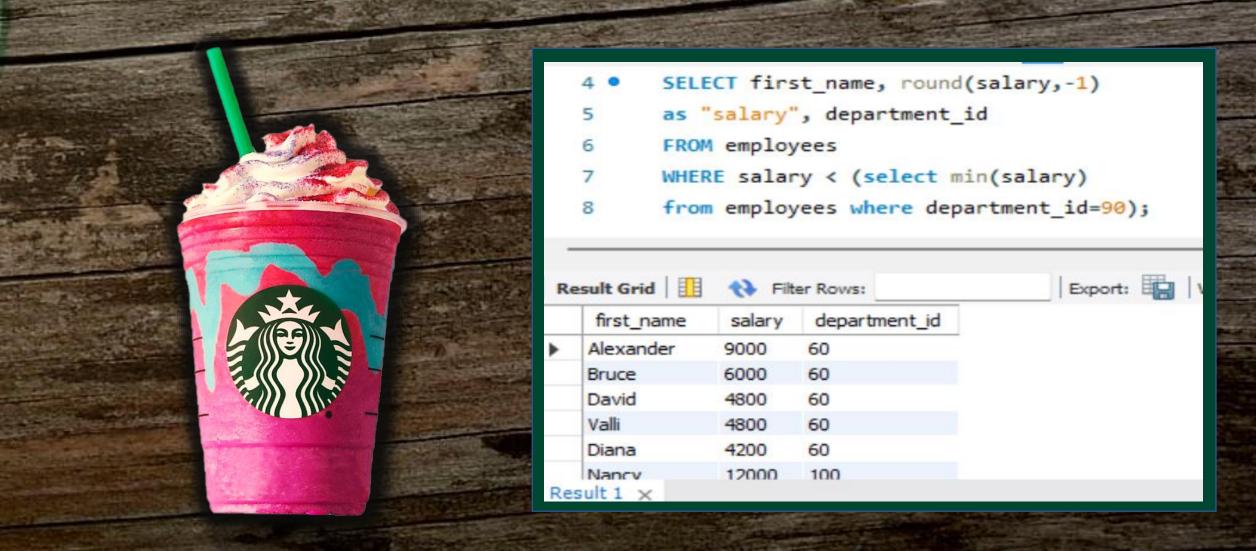




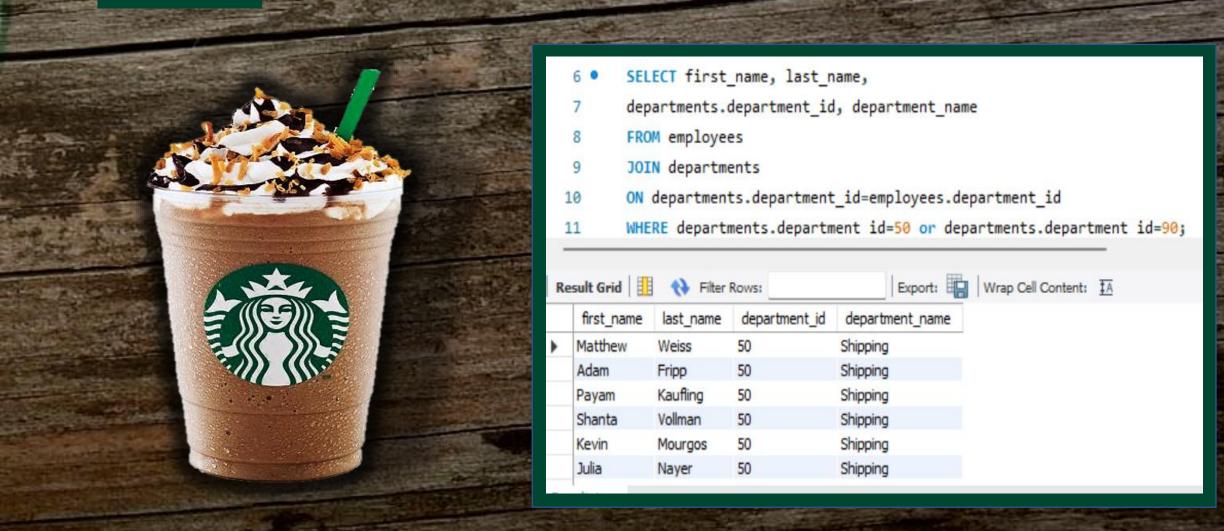




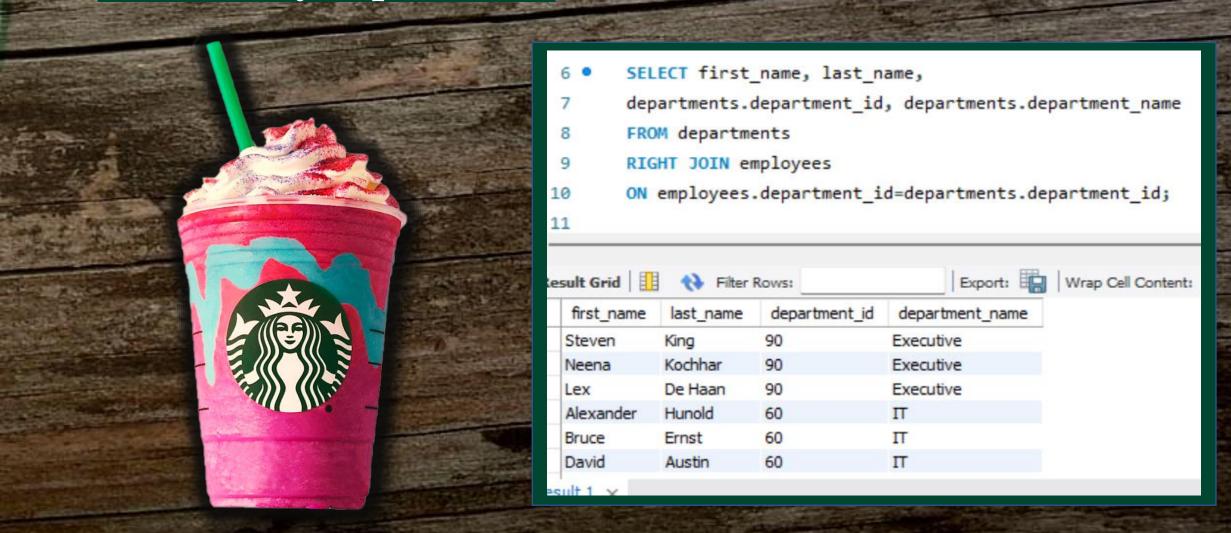
Display the first name, salary, and department number for all employees who earn less than the minimum salary of department number 90



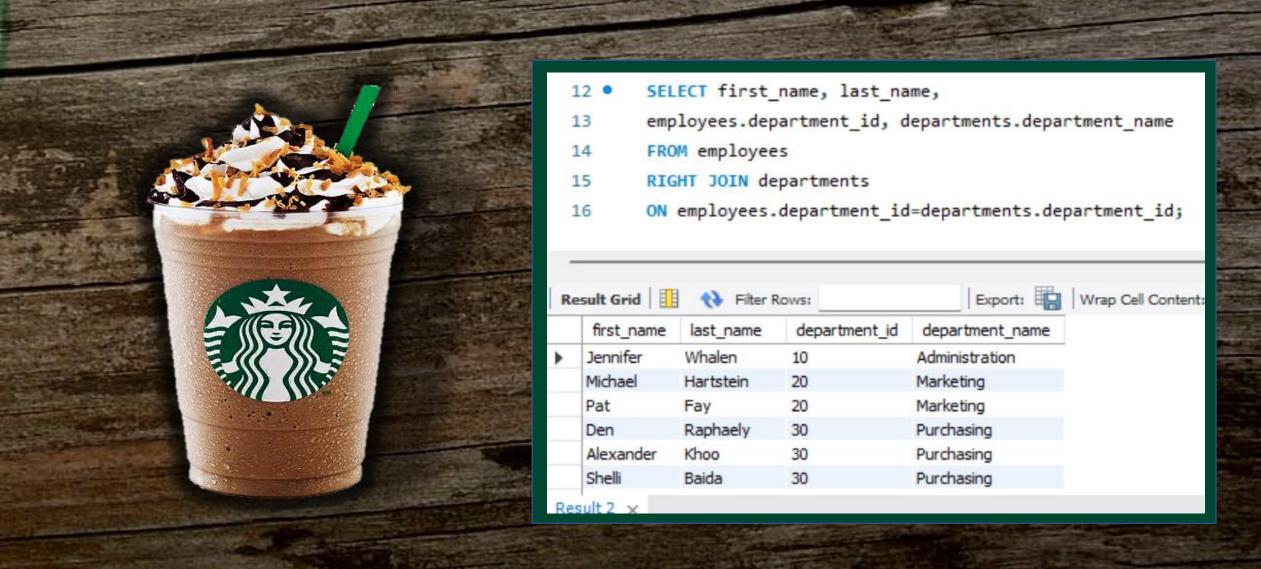
Display the first name, last name, department number, and department name, for all employees in—departments 50 or 90.



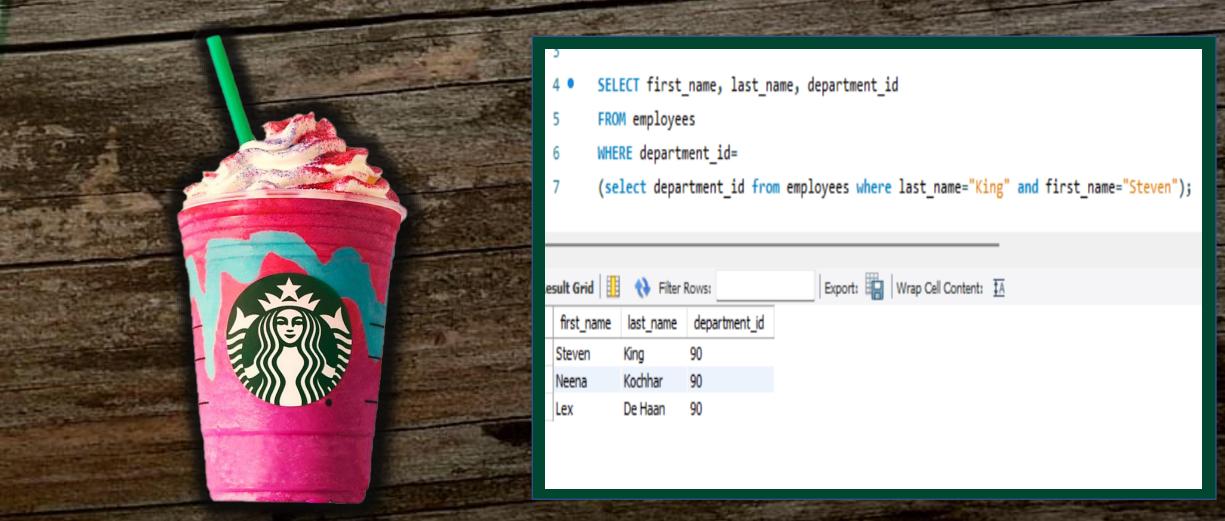
Display the first name, last name, department number, and department name, for all employees—including those without any department.



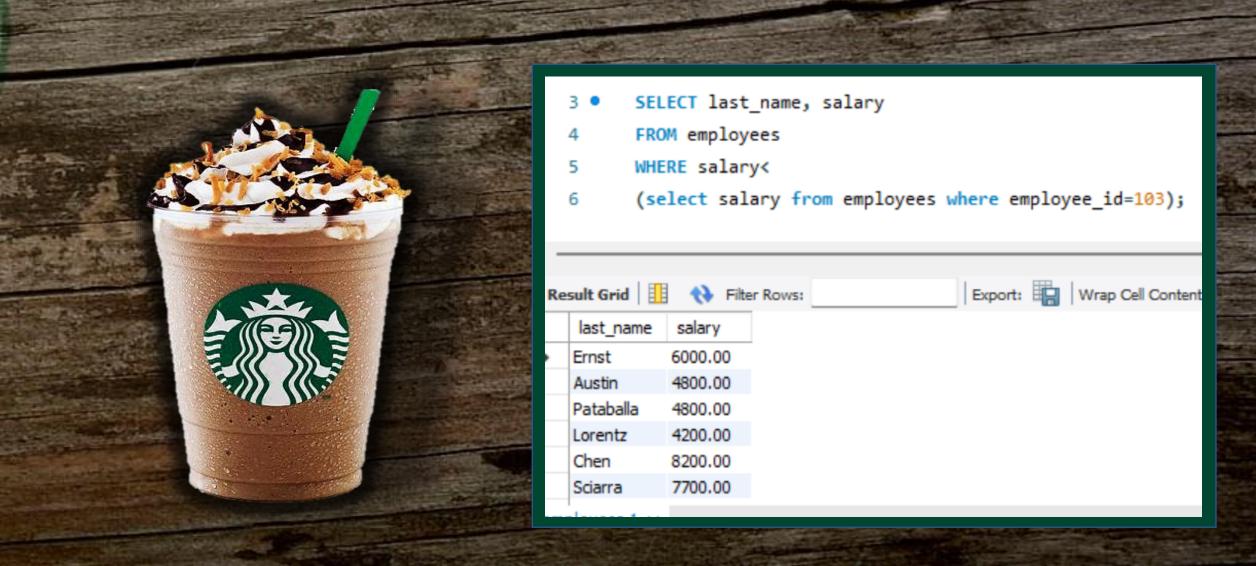
# Modify your query to display all departments including departments without any employees



Display the first name, last name, and department number for all employees who work in the same department as an employee whose last name is "King".



## Display the last name and salary for all employees who earn less than employee number 103



### THANK YOU!

