Employee analysis report

*You are assigned as a data analyst intern by the ‘X’ e-commerce company in order to give your solutions to the problems described below. When trying to solve the issues, read the problem statement and think carefully about what is being asked. Now, time to start!*

*All problems in this task refer to the ‘Employees’ and ‘jobs’ . Please familiarize yourself with the tables and column names in order to write accurate queries and get the appropriate answers*

1. Before the manager enters pay changes for employees, he/she needs to print the Employee Salary Analysis report to review employees' salary histories and proposed salary changes. Supervisors can use this report to verify that the proposed salary changes are correct before updating employee records with those changes

There should be the records of employees with minimum salary and maximum salary in the report.

Create table employees1(employee\_id int,

first\_name varchar(50),

last\_name varchar(50),

email varchar(50),

phone\_number varchar(50),

hire\_date date,

job\_id int,

salary int,

manager\_id int,

department\_id int);

Create table jobs2(job\_id int,

job\_title varchar(50),

min\_salary int,

max\_salary int);

SELECT e.employee\_id, e.first\_name, e.last\_name, MIN(e.salary) AS Min\_Salary, MAX(e.salary) AS Max\_Salary FROM public.employees1 AS e GROUP BY e.employee\_id, e.first\_name, e.last\_name;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| employee\_id | first\_name | last\_name | min\_salary | max\_salary |
| 116 | Shelli | Baida | 2900 | 2900 |
| 115 | Alexander | Khoo | 3100 | 3100 |
| 109 | Daniel | Faviet | 9000 | 9000 |
| 202 | Pat | Fay | 6000 | 6000 |
| 178 | Kimberely | Grant | 7000 | 7000 |
| 104 | Bruce | Ernst | 6000 | 6000 |
| 118 | Guy | Himuro | 2600 | 2600 |
| 204 | Hermann | Baer | 10000 | 10000 |
| 179 | Charles | Johnson | 6200 | 6200 |
| 121 | Adam | Fripp | 8200 | 8200 |
| 110 | John | Chen | 8200 | 8200 |
| 117 | Sigal | Tobias | 2800 | 2800 |
| 146 | Karen | Partners | 13500 | 13500 |
| 123 | Shanta | Vollman | 6500 | 6500 |
| 200 | Jennifer | Whalen | 4400 | 4400 |
| 176 | Jonathon | Taylor | 8600 | 8600 |
| 206 | William | Gietz | 8300 | 8300 |
| 119 | Karen | Colmenares | 2500 | 2500 |
| 205 | Shelley | Higgins | 12000 | 12000 |
| 193 | Britney | Everett | 3900 | 3900 |
| 201 | Michael | Hartstein | 13000 | 13000 |
| 145 | John | Russell | 14000 | 14000 |
| 112 | Jose Manuel | Urman | 7800 | 7800 |
| 177 | Jack | Livingston | 8400 | 8400 |
| 122 | Payam | Kaufling | 7900 | 7900 |
| 108 | Nancy | Greenberg | 12000 | 12000 |
| 113 | Luis | Popp | 6900 | 6900 |
| 126 | Irene | Mikkilineni | 2700 | 2700 |
| 114 | Den | Raphaely | 11000 | 11000 |
| 111 | Ismael | Sciarra | 7700 | 7700 |
| 103 | Alexander | Hunold | 9000 | 9000 |
| 106 | Valli | Pataballa | 4800 | 4800 |
| 107 | Diana | Lorentz | 4200 | 4200 |
| 100 | Steven | King | 24000 | 24000 |
| 105 | David | Austin | 4800 | 4800 |
| 203 | Susan | Mavris | 6500 | 6500 |
| 192 | Sarah | Bell | 4000 | 4000 |
| 120 | Matthew | Weiss | 8000 | 8000 |
| 101 | Neena | Kochhar | 17000 | 17000 |
| 102 | Lex | De Haan | 17000 | 17000 |

The greatest max salary and smallest min salary in accordance with various job titles should be included in the report.

SELECT j.job\_title, MIN(j.min\_salary) AS Smallest\_Min\_Salary, MAX(j.max\_salary) AS Greatest\_Max\_Salary FROM public.jobs2 AS j GROUP BY j.job\_title;

|  |  |  |
| --- | --- | --- |
| job\_title | smallest\_min\_salary | greatest\_max\_salary |
| Human Resources Representative | 4000 | 9000 |
| Marketing Representative | 4000 | 9000 |
| Marketing Manager | 9000 | 15000 |
| Shipping Clerk | 2500 | 5500 |
| Accounting Manager | 8200 | 16000 |
| Stock Manager | 5500 | 8500 |
| President | 20000 | 40000 |
| Administration Assistant | 3000 | 6000 |
| Programmer | 4000 | 10000 |
| Public Accountant | 4200 | 9000 |
| Stock Clerk | 2000 | 5000 |
| Purchasing Manager | 8000 | 15000 |
| Sales Manager | 10000 | 20000 |
| Sales Representative | 6000 | 12000 |
| Accountant | 4200 | 9000 |
| Finance Manager | 8200 | 16000 |
| Administration Vice President | 15000 | 30000 |
| Public Relations Representative | 4500 | 10500 |
| Purchasing Clerk | 2500 | 5500 |

The average salary per job position should be placed in the salary report.

SELECT j.job\_title, AVG(e.salary) AS Average\_Salary FROM public.employees1 AS e JOIN public.jobs2 AS j ON e.job\_id = j.job\_id

GROUP BY j.job\_title;

|  |  |
| --- | --- |
| job\_title | average\_salary |
| Human Resources Representative | 6500 |
| Marketing Representative | 6000 |
| Marketing Manager | 13000 |
| Shipping Clerk | 3950 |
| Accounting Manager | 12000 |
| Stock Manager | 7650 |
| President | 24000 |
| Administration Assistant | 4400 |
| Programmer | 5760 |
| Public Accountant | 8300 |
| Stock Clerk | 2700 |
| Purchasing Manager | 11000 |
| Sales Manager | 13750 |
| Sales Representative | 7550 |
| Accountant | 7920 |
| Finance Manager | 12000 |
| Administration Vice President | 17000 |
| Public Relations Representative | 10000 |
| Purchasing Clerk | 2780 |