**MICROSOFT EASY INTERVIEW QUESTION**

**Problem:** We have a table with employees and their salaries, however, some of the records are old and contain outdated salary information. Find the current salary of each employee assuming that salaries increase each year. Output their id, first name, last name, department ID, and current salary. Order your list by employee ID in ascending order.

**Too**l: MySQL

Step 1: To find the current salary of each employee, we need to select the id, first name, last name, department ID, and the maximum salary for each employee. We can achieve this by using the SELECT statement with the appropriate columns and the MAX() function to get the maximum salary.

**Code:**

**Select** Id,

first\_name,

last\_name,

department\_id,

**Max**(salary)

**From** ms\_employee\_salary

This gives us this table,

| **Id** | **first\_name** | **last\_name** | **department\_id** | **Max(salary)** |
| --- | --- | --- | --- | --- |
| 1 | Todd | Wilson | 1006 | 210000 |

Step 2: Add the GROUP BY clause to group the records by id, first name, last name, and department ID. This will ensure that we get the maximum salary for each employee. I also included the ORDER BY clause to sort the results by employee ID in ascending order.

Code:

GROUP BY Id,

first\_name,

last\_name,

department\_id

ORDER BY Id ASC

This gives us this table,

| **Id** | **first\_name** | **last\_name** | **department\_id** | **Max(salary)** |
| --- | --- | --- | --- | --- |
| 1 | Todd | Wilson | 1006 | 110000 |
| 2 | Justin | Simon | 1005 | 130000 |
| 3 | Kelly | Rosario | 1002 | 42689 |
| 4 | Patricia | Powell | 1004 | 170000 |
| 5 | Sherry | Golden | 1002 | 44101 |
| 6 | Natasha | Swanson | 1005 | 90000 |
| 7 | Diane | Gordon | 1002 | 74591 |
| 8 | Mercedes | Rodriguez | 1005 | 61048 |
| 9 | Christy | Mitchell | 1001 | 150000 |
| 10 | Sean | Crawford | 1006 | 190000 |
| 11 | Kevin | Townsend | 1002 | 166861 |
| 12 | Joshua | Johnson | 1004 | 123082 |
| 13 | Julie | Sanchez | 1001 | 210000 |
| 14 | John | Coleman | 1001 | 152434 |
| 15 | Anthony | Valdez | 1001 | 96898 |
| 16 | Briana | Rivas | 1005 | 151668 |
| 17 | Jason | Burnett | 1006 | 42525 |
| 18 | Jeffrey | Harris | 1002 | 20000 |
| 19 | Michael | Ramsey | 1003 | 63159 |
| 20 | Cody | Gonzalez | 1004 | 112809 |
| 21 | Stephen | Berry | 1002 | 123617 |
| 22 | Brittany | Scott | 1002 | 162537 |
| 23 | Angela | Williams | 1004 | 100875 |
| 24 | William | Flores | 1003 | 142674 |
| 25 | Pamela | Matthews | 1005 | 57944 |
| 26 | Allison | Johnson | 1001 | 128782 |
| 27 | Anthony | Ball | 1003 | 34386 |
| 28 | Alexis | Beck | 1005 | 12260 |
| 29 | Jason | Olsen | 1006 | 51937 |
| 30 | Stephen | Smith | 1001 | 194791 |
| 31 | Kimberly | Brooks | 1003 | 95327 |
| 32 | Eric | Zimmerman | 1006 | 83093 |
| 33 | Peter | Holt | 1002 | 69945 |
| 34 | Justin | Dunn | 1003 | 67992 |
| 35 | John | Ball | 1004 | 47795 |
| 36 | Jesus | Ward | 1005 | 36078 |
| 37 | Philip | Gillespie | 1006 | 36424 |
| 38 | Nicole | Lewis | 1001 | 114079 |
| 39 | Linda | Clark | 1002 | 186781 |
| 40 | Colleen | Carrillo | 1004 | 147723 |
| 41 | John | George | 1001 | 21642 |
| 42 | Traci | Williams | 1003 | 180000 |
| 43 | Joseph | Rogers | 1005 | 22800 |
| 44 | Trevor | Carter | 1001 | 38670 |
| 45 | Kevin | Duncan | 1003 | 45210 |
| 46 | Joshua | Ewing | 1003 | 73088 |
| 47 | Kimberly | Dean | 1003 | 71416 |
| 48 | Robert | Lynch | 1004 | 117960 |
| 49 | Amber | Harding | 1002 | 77764 |
| 50 | Victoria | Wilson | 1002 | 176620 |
| 51 | Theresa | Everett | 1002 | 31404 |
| 52 | Kara | Smith | 1004 | 192838 |
| 53 | Teresa | Cohen | 1001 | 98860 |
| 54 | Wesley | Tucker | 1005 | 90221 |
| 55 | Michael | Morris | 1005 | 106799 |
| 56 | Rachael | Williams | 1002 | 103585 |
| 57 | Patricia | Harmon | 1005 | 147417 |
| 58 | Edward | Sharp | 1005 | 41077 |
| 59 | Kevin | Robinson | 1005 | 100924 |
| 60 | Charles | Pearson | 1004 | 173317 |
| 61 | Ryan | Brown | 1003 | 120000 |
| 62 | Dale | Hayes | 1005 | 97662 |
| 63 | Richard | Sanford | 1001 | 136083 |
| 64 | Danielle | Williams | 1006 | 120000 |
| 65 | Deborah | Martin | 1004 | 67389 |
| 66 | Dustin | Bush | 1004 | 47567 |
| 67 | Tyler | Green | 1002 | 111085 |
| 68 | Antonio | Carpenter | 1002 | 83684 |
| 69 | Ernest | Peterson | 1005 | 115993 |
| 70 | Karen | Fernandez | 1003 | 101238 |
| 71 | Kristine | Casey | 1003 | 67651 |
| 72 | Christine | Frye | 1004 | 137244 |
| 73 | William | Preston | 1003 | 155225 |
| 74 | Richard | Cole | 1003 | 180361 |
| 75 | Julia | Ramos | 1006 | 105000 |