

Case 3: Replacing older official laptops at 20-20 Retail Ltd.

Streak and her friends have been working in 20-20 Retail Ltd. for the past five years. They have been using older versions of their laptops in terms of operating systems (OS). Before requesting their line manager, they decided to come up with a homogenous laptop requirement based on their job roles and responsibilities. There are three operating systems (OS) in the market: Microsoft Windows, iOS & Linux. The team required only iOS & Linux OS for better performance. Post validation, they approached their line manager to express their requirements. The company doesn't belong to the manager. He smirked and informed Streak that companies don't do as employees wish. He added that certain financial elements are involved in making device replacement decisions. If someone sought something, the company believed one must earn it by showcasing their performance at work. Streak and her friends disagreed with his comments. So, the manager decided to meet HR for a device replacement discussion.

Streak informed the manager that they needed only iOS & Linux OS devices with the latest upgrade, preferably Apple MacBook & Asus. The meeting was set up with the HR team. The manager tried to initiate his point on device replacement. The meeting outcome was not positive as the HR team was inclined to provide Windows-OS devices provided the company had a known vendor who could supply devices at a lower price than the outside market. Hence, they ended the meeting on a disagreement note. The manager decided to think in a different dimension to negotiate better with the HR team to acquire the best deal for them. He made a plan for two days.

Two days later, he organised a meeting with the HR team again. Now, he proposed an idea where device replacement could be linked to a candidate's performance. He added that the company would experience peak season in the next two months. During the peak season, the candidates are evaluated separately, and daily feedback is given. Based on the performance metrics, candidates are given brownie points; candidates are evaluated. After one month, the brownie points for all the candidates are evaluated. The one who scores least in the team would receive Windows PC; the highest would receive a non-Windows PC (iOS/Ubuntu). It is up to the manager to choose a way to determine the minimum number of brownies points to be required to get corresponding laptops.

The peak season is passed, and it is time for evaluation. The manager has maintained the details as a table on the database. The HR managers can evaluate the candidates based on the database table maintained by the line manager.

1. The HR managers task is to write a query to print the `employee_id`, `device_code`, `device_name`, and the `brownie_points` that employees secured based on their

performance, in descending order. If two employees are having equal brownie points, then sort the result in descending order of device_code

2. All the laptop devices are not new, they are used by previous employees earlier, yet they are working fine. There is a separate table that is maintained on the database having different characteristics. The HR managers need to join this table with the previous one to get the desired result.

Sample Brownie table:

Employee_ID	Device_code	Device_name	Brownie_points
110120	15	Macbook Pro 16	987
110121	35	Zenbook S	659
110122	20	Zenbook Flip	576
110123	33	MacBook Pro 13	818
110124	12	MacBook Pro 13	870
110125	3	Zenbook Flip	505
110126	29	MacBook Pro 13	825
110127	28	MacBook Pro 16	921
110128	9	Zenbook Flip	502

Sample Device table:

Device_code	Years_of_usage	Is_Windows
15	6	False
35	5	False
20	6	True
33	3	False
12	8	True