

WorkEarly

**- SQL Advanced Assignment -
Assessment**



Workearly

SQL

Session αξιολόγησης σε SQL.

Question User Logins :

In this MySQL challenge, the table provided shows all new users signing up on a specific date in the format YYYY-MM-DD. Your query should output the change from one month to the next. Because the first month has no preceding month, your output should skip that row. Your output should look like the following table.

Month	MonthToMonthChange
February	-1
March	6
April	-6
May	4

Recommended Answer :

```
SELECT MONTHNAME(ULogin1.DateJoined) As Month,
COUNT(ULogin1.DateJoined) -
(
    SELECT COUNT(ULogin2.DateJoined)
    FROM maintable_C1206 AS ULogin2
    WHERE MONTH(ULogin2.DateJoined) = MONTH(ULogin1.DateJoined) - 1
) AS MonthToMonthChange
FROM maintable_C1206 AS ULogin1
WHERE MONTH(DateJoined) != 1
GROUP BY MONTHNAME(DateJoined)
ORDER BY DateJoined ASC;
```

Question SQL Employee Salaries :

In this MySQL challenge, your query should return the information for the employee with the third highest salary. Write a query that will find this employee and return that row, but then replace the DivisionID column with the corresponding DivisionName from the table cb_companydivisions. You should also replace the ManagerID column with the ManagerName if the ID exists in the table and is not NULL.

Your output should look like the following table.

ID	Name	DivisionName	ManagerName	Salary
222	Mark Red	Sales	Susan Wall	86000

Recommended Answer :

```
SELECT main.ID, Name,
DivisionName,
CASE
  WHEN ManagerID IS NOT Null
  THEN
    (
      SELECT m1.Name
      FROM maintable_MKFSO m1
      JOIN maintable_MKFSO m2
      ON m1.id = m2.ManagerID
      limit 1
    )
  ELSE ManagerID
END AS ManagerName,
Salary
FROM maintable_MKFSO main
JOIN cb_companydivisions company
ON main.DivisionID = company.id
ORDER BY Salary DESC
limit 1 offset 2
```

Question Company Boss :

In this MySQL challenge, your query should return all the people who report to either Jenny Richards or have a NULL value in ReportsTo. The rows should be ordered by Age. Your query should also add a column at the end with a title of Boss Title where the value is either None or CEO.

Your output should look like the following table.

FirstName	LastName	ReportsTo	Position	Age	Boss Title
Ashley	Johnson	null	Intern	25	None
Noah	Fritz	Jenny Richards	Assistant	30	CEO
David	S	Jenny Richards	Director	32	CEO
Jenny	Richards	null	CEO	45	None

Recommended Answer :

```
SELECT FirstName,
LastName,
ReportsTo,
Position,
Age,
CASE
    WHEN ReportsTo = "Jenny Richards"
    THEN "CEO"
    ELSE "None"
END AS "Boss Title"
FROM maintable_GQ0Q3
WHERE ReportsTo = "Jenny Richards"
OR ReportsTO IS null
ORDER BY Age;
```