Q1. Query   
Select D.name, AVG(E.age) as Average\_age from departments D LEFT JOIN employees E ON D.id = E.department\_id

GROUP BY D.name  
  
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Q2. Query

Select D.name, count(E.id) as No\_of\_employees from departments D LEFT JOIN employees E ON D.id = E.department\_id

WHERE E.age > 40

GROUP BY D.name

ORDER BY No\_of\_employees DESC

LIMIT 1

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Q3. solution

Select count(id) as Count\_of\_employees from employees where

DATEDIFF(DATE(NOW()), joining\_date) <= 100

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Q4 solution

with cte as(

SELECT id,

name,

age,

department\_id,

CASE

WHEN department\_id = 2 THEN DATE\_SUB(CURDATE(), INTERVAL 1 DAY)

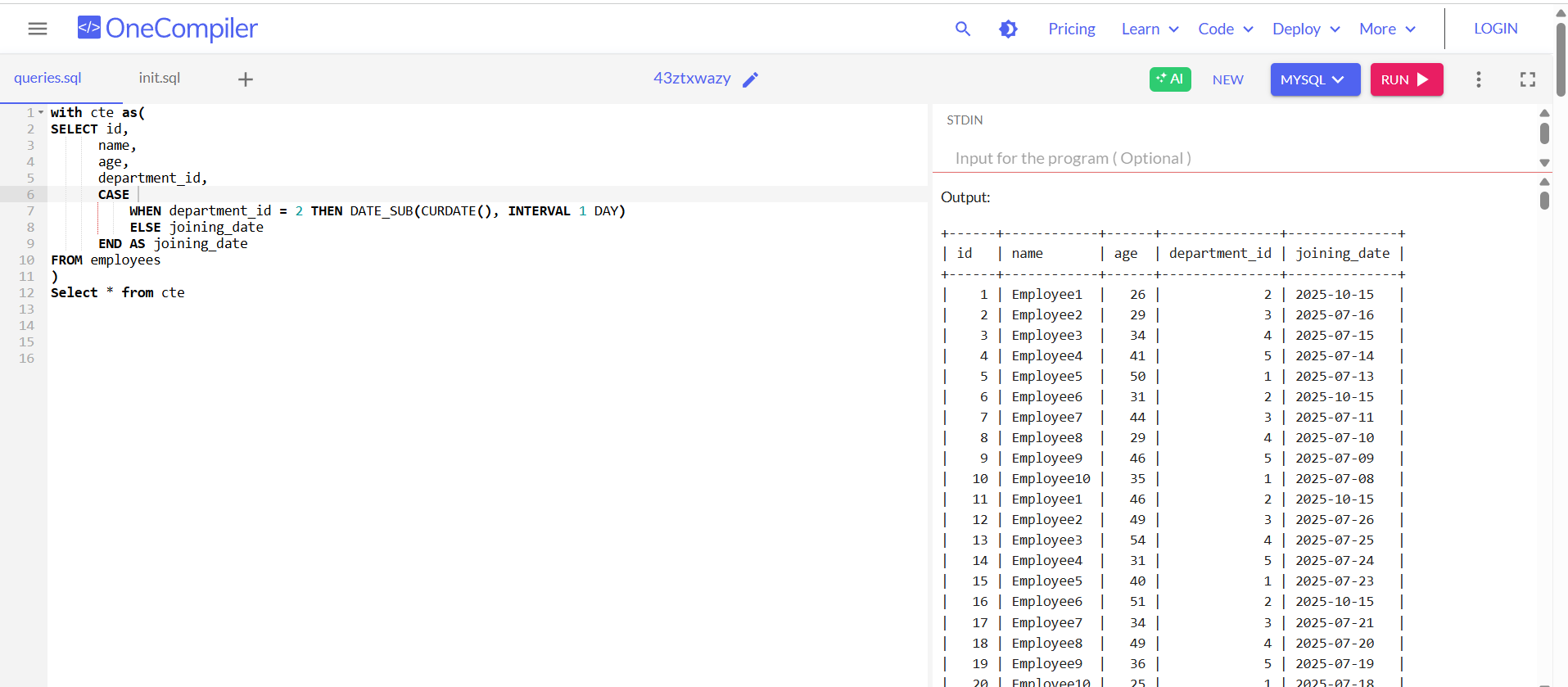
ELSE joining\_date

END AS joining\_date

FROM employees

)

Select \* from cte

  
**Comments: Data was not getting updated in the table , so created the cte**

Q5. solution

with cte as(

SELECT id,

name,

age,

department\_id,

CASE

WHEN department\_id = 2 THEN DATE\_SUB(CURDATE(), INTERVAL 1 DAY)

ELSE joining\_date

END AS joining\_date

FROM employees

)

Select count(id) as Count\_of\_employees from cte where

DATEDIFF(DATE(NOW()), joining\_date) <= 100

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