**1. Write a query to calculate the average age of employees in each department.**

select

d.name as department\_name, avg(age) as avg\_age

from

employees as e

join departments as d

on e.department\_id = d.id

group by

d.name;

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**2. Write a query to find the department with the highest number of employees whose age is above 40.**

with cte1 as

(SELECT

department\_id,

count(\*) as age\_above\_40

FROM

employees

WHERE

age > 40

GROUP by

department\_id)

select

d.name, age\_above\_40

from

cte1 join departments as d

on cte1.department\_id = d.id

where

age\_above\_40 = (select max(age\_above\_40) from cte1);

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**3. Write a query to retrieve the count of employees who have in joined in last 100 days.**

select

count(\*) as employees\_in\_last\_100\_days

from

employees

where

joining\_date between date\_sub(current\_date, INTERVAL 100 DAY) and current\_date;

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**4. Write a query to update the joining date of all employees in the HR department to the yesterday.**

update employees

SET joining\_date = date\_sub(current\_date, INTERVAL 1 day)

where department\_id in (select id from departments where name='HR');

select \* from employees where department\_id = 2; (query to cross-check updates)

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**5. Write a query to retrieve the count of employees who have in joined in last 100 days.**

update employees

SET joining\_date = date\_sub(current\_date, INTERVAL 1 day)

where department\_id in (select id from departments where name='HR');

select

count(\*) as count

from

employees

where

joining\_date between date\_sub(current\_date, INTERVAL 100 DAY) and current\_date;

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