Task 1:

Display only Name and code of Employees

Query: select emp\_name, emp\_code from tbl\_employee;

Task2 :

Count Employees in Each Department

Query: SELECT dept\_name, COUNT(\*) AS total\_employees

FROM tbl\_employee

GROUP BY dept\_name;

Query 2(with department name): SELECT d.id,d.department\_name, COUNT(e.id) AS total\_employees

FROM tbl\_employee as e

right join tbl\_department as d ON e.dept\_name = d.id

GROUP BY d.id;

Task 3:

Select Attendance Records for a Specific Date

Query:   
SELECT \* FROM tbl\_attendance

WHERE attend\_date = '2020-12-31';

TASK 4:

Get Employees with there assign leaves

Query: SELECT e.id, e.emp\_name,l.prorata\_annual\_leave FROM tbl\_employee AS e

JOIN tbl\_emp\_leave AS l ON e.id = l.emp\_id;

Task 5:

Find Employees Who Took Leave on specific date

Query: SELECT e.emp\_name,a.emp\_code,a.attdate,a.statusin FROM tbl\_dailyattendance AS a

JOIN tbl\_employee AS e ON a.emp\_code = e.emp\_code

WHERE attdate = '2022-04-20' AND statusin = 'Leave';

Task 6: List Employees Who Were Absent on a Specific Date

Query: SELECT e.emp\_name,a.emp\_code,a.attdate,a.statusin FROM tbl\_dailyattendance AS a

JOIN tbl\_employee AS e ON a.emp\_code = e.emp\_code

WHERE attdate = '2022-04-20' AND statusin = 'absent';

Task 7:Get a list of employee who have resigned and get their last attendance date

Query: SELECT id,emp\_name,employement\_status, resign\_date AS last\_attendance

FROM tbl\_employee

WHERE employement\_status = "Resign" AND resign\_date IS NOT NULL AND resign\_date <> '';

Task 8: Calculate Total Leave Days Taken by Each Employee

Query: SELECT a.emp\_code,e.emp\_name, COUNT(a.emp\_code) AS total\_leave\_days

FROM tbl\_dailyattendance AS a

JOIN tbl\_employee AS e

ON a.`emp\_code` = e.`emp\_code`

WHERE statusin = 'leave'

GROUP BY e.emp\_code;

Task 9: List all employees who have not taken any leave.

Query:

SELECT e.emp\_code, e.emp\_name

FROM tbl\_employee AS e

LEFT JOIN tbl\_dailyattendance AS a

ON e.emp\_code = a.emp\_code AND a.statusin = 'leave'

WHERE a.emp\_code IS NULL;

Task 10: Provide a summary of attendance by department, including total present and absent.

SELECT

d.department\_name,

COUNT(CASE WHEN a.attendance\_type = 'p' THEN 1 END) AS total\_present,

COUNT(CASE WHEN a.statusin = 'absent' THEN 1 END) AS total\_absent

FROM

tbl\_dailyattendance AS a

JOIN

tbl\_employee AS e ON a.emp\_code = e.emp\_code

JOIN

tbl\_department AS d ON e.dept\_name = d.id

GROUP BY

d.department\_name;

Task 11: Finding Designations with the Most Leave Taken

Query:

SELECT

d.id,d.designation\_name,

COUNT(a.statusin) AS total\_leaves

FROM

tbl\_dailyattendance AS a

JOIN

tbl\_employee AS e ON a.emp\_code = e.id

JOIN

tbl\_designation AS d ON e.desig\_name = d.id

WHERE

a.statusin = 'leave'

GROUP BY

d.designation\_name

ORDER BY

total\_leaves DESC;

Task 12: Analyze attendance trends present leaves and absents, by employees.

Query:

SELECT

e.emp\_code,

e.emp\_name,

SUM(CASE WHEN da.attendance\_type = 'P' THEN 1 ELSE 0 END) AS present\_days,

SUM(CASE WHEN da.attendance\_type = 'A' THEN 1 ELSE 0 END) AS absent\_days,

SUM(CASE WHEN da.attendance\_type = 'L' THEN 1 ELSE 0 END) AS leave\_days

FROM

tbl\_employee e

LEFT JOIN

tbl\_dailyattendance da ON e.emp\_code = da.emp\_code

GROUP BY

e.emp\_code, e.emp\_name;

task 13: Find employees who were absent for more than two consecutive days

Task 14: Calculate the average leave days taken per employee in each department.

Query:

SELECT

d.department\_name,

e.emp\_code,

e.emp\_name,

AVG(CASE WHEN da.statusin = 'Leave' THEN 1 ELSE 0 END) AS avg\_leave\_days

FROM

tbl\_employee e

JOIN

tbl\_department d ON e.dept\_name = d.id

LEFT JOIN

tbl\_dailyattendance da ON e.emp\_code = da.emp\_code

GROUP BY

d.department\_name, e.emp\_code, e.emp\_name;

Task 15: Find Employees with More than 15 Leave in last year

Query:

SELECT e.emp\_name,COUNT(da.attdate) AS emp\_leaves

FROM tbl\_dailyattendance AS da

JOIN tbl\_employee AS e ON da.emp\_code = e.emp\_code

WHERE da.statusin = 'Leave' AND YEAR(da.attdate) = YEAR(CURDATE()) - 1

GROUP BY e.emp\_name

HAVING emp\_leaves > 15;

Task 16: Create a yearly attendance report that shows the total attendance and absence for each employee

Query:

SELECT

e.emp\_name,

YEAR(da.attdate) AS attendance\_year,

COUNT(CASE WHEN da.statusin <> 'Present' THEN 1 END) AS total\_present,

COUNT(CASE WHEN da.statusin = 'Absent' OR da.statusin = 'Leave' THEN 1 END) AS total\_absence

FROM

tbl\_dailyattendance AS da

JOIN

tbl\_employee AS e ON da.emp\_code = e.emp\_code

GROUP BY

e.emp\_name, attendance\_year

ORDER BY

e.emp\_name, attendance\_year;