







1. Total Salary of All Employees

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| OUTPUT:- SELECT SUM(SALARY) AS "Total Salary" FROM Employees; |

1. Average Salary per Department

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| OUTPUT:- SELECT d.department\_name, AVG(e.salary) AS average\_salary  FROM employees e  JOIN departments d ON e.department\_id = d.department\_id  GROUP BY d.department\_name; |

1. Maximum and Minimum Salary in the Company

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| OUTPUT:- SELECT MAX(Salary) AS MaxSalary, MIN(Salary) AS MinSalary FROM Employees; |

1. Number of Employees per Department

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| OUTPUT:- SELECT NAME, COUNT(employee\_id) AS number\_of\_employees FROM employees GROUP BY NAME; |

1. Total Hours Worked per Project

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| OUTPUT:-  SELECT p.project\_name, SUM(ep.hours\_worked) AS total\_hours  FROM EMPLOYEE\_PROJECTS ep  JOIN employees e ON ep.employee\_id = e.employee\_id  JOIN projects p ON ep.project\_id = p.project\_id  GROUP BY p.project\_name; |

1. Total Salary of Employees in Each Department

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| OUTPUT:-  SELECT department\_id, SUM(salary) AS total\_salary  FROM employees  GROUP BY department\_id; |

1. Average Salary of Employees per Department

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| OUTPUT:-  SELECT d.department\_id, AVG(e.salary) AS average\_salary  FROM departments d  JOIN employees e ON e.department\_id = d.department\_id  GROUP BY d.department\_id; |

1. Maximum Salary in Each Department

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| OUTPUT:-  SELECT department\_id, MAX(salary) AS max\_salary  FROM employees  GROUP BY department\_id; |

1. Minimum Salary in Each Department

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| OUTPUT:-  SELECT d.department\_id, MIN(e.salary) AS min\_salary  FROM employees e  JOIN departments d ON e.department\_id = d.department\_id  GROUP BY d.department\_id; |

1. Total Hours Worked on Each Project

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| OUTPUT:-  SELECT p.project\_id, SUM(ep.hours\_worked) AS total\_hours  FROM employee\_projects ep  JOIN projects p ON ep.project\_id = p.project\_id  GROUP BY p.project\_id; |

1. Average Hours Worked per Project

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| OUTPUT:-  SELECT p.project\_id, AVG(ep.hours\_worked) AS average\_hours  FROM employee\_projects ep  JOIN projects p ON ep.project\_id = p.project\_id  GROUP BY p.project\_id; |

1. Employee and Department Details

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| OUTPUT:-  SELECT e.employee\_id, e.NAME, d.department\_name  FROM employees e  JOIN departments d ON e.department\_id = d.department\_id; |

1. Total Hours Worked by Employees in Each Project

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| OUTPUT:-  SELECT ep.project\_id, SUM(ep.hours\_worked) AS total\_hours  FROM employee\_projects ep  GROUP BY ep.project\_id; |

1. Projects and Their Total Hours Worked by Employees

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| OUTPUT:-  SELECT p.project\_name, SUM(ep.hours\_worked) AS total\_hours  FROM employee\_projects ep  JOIN projects p ON ep.project\_id = p.project\_id  GROUP BY p.project\_name; |

1. Employees Who Worked on Projects in Each Department

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| OUTPUT:-  SELECT e.NAME, d.department\_name, p.project\_name  FROM employees e  JOIN departments d ON e.department\_id = d.department\_id  JOIN employee\_projects ep ON e.employee\_id = ep.employee\_id  JOIN projects p ON ep.project\_id = p.project\_id; |

1. Departments with Their Managers and Total Employees

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| OUTPUT:-  SELECT d.department\_name, CONCAT(e.NAME) AS manager\_name, COUNT(e2.employee\_id) AS total\_employees  FROM departments d  JOIN employees e ON d.manager\_id = e.employee\_id  LEFT JOIN employees e2 ON d.department\_id = e2.department\_id  GROUP BY d.department\_name, manager\_name; |