1. **Query:**

SELECT COUNT(\*) AS total\_employees

FROM employees;

**Output:**

|  |
| --- |
| Total\_employees |
| 10 |

1. **Query:**

SELECT SUM(salary) AS total\_it\_salary

FROM employees

WHERE department = 'IT';

**Output:**

|  |
| --- |
| Total\_it\_salary |
| 220000 |

1. **Query:**

SELECT AVG(salary) AS avg\_hr\_salary

FROM employees

WHERE department = 'HR';

**Output:**

|  |
| --- |
| Avg\_hr\_salary |
| 49500 |

1. **Query:**

SELECT

MIN(salary) AS lowest\_salary,

MAX(salary) AS highest\_salary

FROM employees;

**Output:**

|  |  |
| --- | --- |
| Lowest\_salary | Highest\_salary |
| 48000 | 62000 |

1. **Query:**

SELECT department,

SUM(salary) AS total\_salary

FROM employees

GROUP BY department;**Output:**

|  |  |
| --- | --- |
| Department | Total\_salary |
| IT | 220000 |
| HR | 99000 |
| Finance | 119000 |
| Marketing | 105000 |

1. **Query:**

SELECT city,

COUNT(\*) AS total\_employees

FROM employees

GROUP BY city;**Output:**

|  |  |
| --- | --- |
| City | Total\_employees |
| New York | 2 |
| Chicago | 3 |
| Los Angeles | 2 |
| San Francisco | 2 |
| Houston | 1 |

1. **Query:**

SELECT department,

AVG(salary) AS avg\_salary

FROM employees

GROUP BY department

ORDER BY avg\_salary DESC;

**Output:**

|  |  |
| --- | --- |
| Department | Avg\_salary |
| Finance | 59500 |
| IT | 55000 |
| Marketing | 52500 |
| HR | 49500 |

1. **Query:**

SELECT department,

SUM(salary) AS total\_salary

FROM employees

GROUP BY department

HAVING SUM(salary) > 100000;

**Output:**

|  |  |
| --- | --- |
| Department | Total\_salary |
| IT | 220000 |
| Finance | 119000 |
| Marketing | 105000 |

1. **Query:**

SELECT city,

COUNT(\*) AS employee\_count

FROM employees

GROUP BY city

HAVING COUNT(\*) > 1

ORDER BY employee\_count DESC;

**Output:**

|  |  |
| --- | --- |
| City | Employee\_count |
| Chicago | 3 |
| New York | 2 |
| Los Angeles | 2 |
| San Francisco | 2 |

1. **Query:**

SELECT department,

AVG(salary) AS avg\_salary

FROM employees

GROUP BY department

ORDER BY avg\_salary DESC LIMIT 1;

**Output:**

|  |  |
| --- | --- |
| Department | Avg\_salary |
| Finance | 59500 |