Scenario: Optimizing Employee Compensation and Resource Allocation

# Increasing Employee Satisfaction:

select employee\_id , salary, salary\*1.10 as new\_salary from employees ;

# Evaluating Average Salary:

SELECT AVG(salary) AS avg\_salary FROM employees;

# Salary Range Analysis:

select max(salary)-min(salary) as salary\_range from employees;

# Identifying High Earners in HR:

select \* from employees

where department="HR" and salary>'50000';

# Targeting Young or Low-Earning Employees for Development Programs:

select \* from employees

where age <'25' and salary<'50000';

# Resource Allocation:

select \* from employees

where not department <>'IT';

\*\*Schema (MySQL v5.7)\*\*

CREATE TABLE employees (

employee\_id INT PRIMARY KEY,

first\_name VARCHAR(50) NOT NULL,

last\_name VARCHAR(50) NOT NULL,

age INT NOT NULL,

salary DECIMAL(10, 2) NOT NULL,

department VARCHAR(50) NOT NULL,

increment\_salary DECIMAL(10, 2) NOT NULL

);

INSERT INTO employees (employee\_id, first\_name, last\_name, age, salary, department, increment\_salary)

VALUES

(1, 'John', 'Doe', 25, 50000.00, 'HR', 55000.00),

(2, 'Jane', 'Smith', 30, 60000.00, 'IT', 66000.00),

(3, 'Sam', 'Brown', 22, 40000.00, 'Sales', 44000.00),

(4, 'Sue', 'Green', 28, 55000.00, 'HR', 60500.00),

(5, 'Tom', 'Black', 35, 70000.00, 'IT', 77000.00);

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\*\*Query #1\*\*

select employee\_id , salary, salary\*1.10 as new\_salary from employees ;

| employee\_id | salary | new\_salary |

| ----------- | -------- | ---------- |

| 1 | 50000.00 | 55000.0000 |

| 2 | 60000.00 | 66000.0000 |

| 3 | 40000.00 | 44000.0000 |

| 4 | 55000.00 | 60500.0000 |

| 5 | 70000.00 | 77000.0000 |

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\*\*Query #2\*\*

SELECT AVG(salary) AS avg\_salary FROM employees;

| avg\_salary |

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| 55000.000000 |

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\*\*Query #3\*\*

select max(salary)-min(salary) as salary\_range from employees;

| salary\_range |

| ------------ |

| 30000.00 |

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\*\*Query #4\*\*

select \* from employees

where department="HR" and salary>'50000';

| employee\_id | first\_name | last\_name | age | salary | department | increment\_salary |

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| 4 | Sue | Green | 28 | 55000.00 | HR | 60500.00 |

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\*\*Query #5\*\*

select \* from employees

where age <'25' and salary<'50000';

| employee\_id | first\_name | last\_name | age | salary | department | increment\_salary |

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| 3 | Sam | Brown | 22 | 40000.00 | Sales | 44000.00 |

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\*\*Query #6\*\*

select \* from employees

where not department <>'IT';

| employee\_id | first\_name | last\_name | age | salary | department | increment\_salary |

| ----------- | ---------- | --------- | --- | -------- | ---------- | ---------------- |

| 2 | Jane | Smith | 30 | 60000.00 | IT | 66000.00 |

| 5 | Tom | Black | 35 | 70000.00 | IT | 77000.00 |

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\*\*Query #7\*\*

select \* from employees

where age='30';

| employee\_id | first\_name | last\_name | age | salary | department | increment\_salary |

| ----------- | ---------- | --------- | --- | -------- | ---------- | ---------------- |

| 2 | Jane | Smith | 30 | 60000.00 | IT | 66000.00 |

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[View on DB Fiddle](https://www.db-fiddle.com/)