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CASE STUDY REPORT ON Salary management sytem

Program Name: BCA

**Subject Name/Code: Database
Management System (23CAT-251)**

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ABSTRACT

- **Introduction:**

The **Salary Management System (SMS)** is a centralized, database-driven application designed to streamline the administration of employee-related operations in an organization. As businesses grow and the number of employees increases, managing their records, salary structures, and departmental affiliations becomes complex and prone to errors if done manually. This system solves these problems by providing an efficient, digital solution that handles employee data, salary calculations, departmental assignments, and position tracking with accuracy and speed.

The SMS database focuses on four major components:

Employee Management – Storing and managing employee personal details, employment dates, gender, and contact information.

Departmental Relationships – Associating employees with specific departments based on their roles and responsibilities.

Position Tracking – Assigning and managing the job titles or roles held by employees within the company.

Salary Computation – Automatically calculating employee salaries based on their basic pay, bonus, and deductions using SQL's computed column capabilities.

The system is designed not only to allow for the **addition, update, and deletion** of records, but also to **generate reports** for analysis such as department-wise salary totals, top earners, and salary averages. It uses SQL for querying and reporting, offering insights into the organization's payroll structure. The SMS is scalable and can be integrated with broader Human Resource systems or financial applications, supporting long-term business operations.

By automating the storage and retrieval of employee-related data, this system eliminates redundancy, maintains consistency, and ensures that all stakeholders—from HR executives to accountants—can access timely and accurate information.

- **Technique:**

The **Salary Management System (SMS)** is developed using **MySQL**, applying the principles of relational database management and normalization to reduce redundancy and maintain data consistency. The database is designed using multiple interrelated tables such as Employee, Department, Salary, Position, and EmployeeDepartment. Each table is linked via **foreign keys** to enforce referential integrity, ensuring that all data remains synchronized across the system.

The following key techniques have been implemented in the SMS:

1. Data Insertion and Structuring

Populated with sample data for employees, salaries, departments, and positions.

Uses CHECK constraints (e.g., gender restriction) and UNIQUE constraints (e.g., email uniqueness) for data validation.

Ensures referential integrity using FOREIGN KEY constraints with ON DELETE CASCADE behavior.

2. Relational Design & Normalization

The schema is normalized to at least **Third Normal Form (3NF)**, ensuring each piece of data is stored only once.

This minimizes duplication and supports efficient data retrieval.

3. Querying and Data Retrieval

Various SELECT queries retrieve specific or aggregate information.

JOIN operations combine data across multiple tables to show real-time relational insights (e.g., employee + salary + department).

Aggregation functions such as SUM, AVG, and COUNT are used for financial reports.

4. Updating and Deleting Records

Supports updates to employee or salary details using UPDATE queries.

Cascading delete ensures that deleting an employee also removes their salary, position, and department records automatically.

5. Computed Fields for Automation

The total_salary field in the Salary table is **automatically calculated** using the expression:
basic_salary + bonus - deductions.

This reduces manual calculation errors and ensures real-time accuracy.

6. Scalability and Modularity

The structure supports additional future modules like tax computation, attendance tracking, leave management, or bonus history.

Each module is modular and maintains clean relationships with existing tables.

This technique-driven design ensures not only robust data storage but also makes the system powerful in generating operational and financial insights through dynamic SQL queries.

- **System Configuration:**

- **Database Technology:** MySQL
- **Supported Language:** SQL
- **Environment:** Any MySQL Client
- **Hardware/Software:** Supports all standard database server configurations.

- **INPUT:**



```
CREATE DATABASE SMS;  
USE SMS;
```

```
CREATE TABLE Employee(  
    emp_id INT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    email VARCHAR(50) NOT NULL UNIQUE,  
    address VARCHAR(100) NOT NULL,  
    gender VARCHAR(20) NOT NULL CHECK (gender IN ('male',  
'female', 'other')),  
    date_of_joining DATE NOT NULL  
);
```

```
CREATE TABLE Department(  
    dept_id INT PRIMARY KEY,  
    dept_name VARCHAR(50) NOT NULL,  
    location VARCHAR(50) NOT NULL  
);
```

```
CREATE TABLE Salary(  
    salary_id INT PRIMARY KEY,  
    emp_id INT NOT NULL,  
    basic_salary DECIMAL(10, 2) NOT NULL CHECK  
(basic_salary >= 0),  
    bonus DECIMAL(10, 2) NOT NULL CHECK (bonus >= 0),  
    deductions DECIMAL(10, 2) NOT NULL CHECK  
(deductions >= 0),  
    total_salary DECIMAL(10, 2) GENERATED ALWAYS AS  
(basic_salary + bonus - deductions) STORED,  
    FOREIGN KEY (emp_id) REFERENCES Employee(emp_id) ON  
DELETE CASCADE  
);
```

```
CREATE TABLE Position(  
    pos_id INT PRIMARY KEY,  
    emp_id INT NOT NULL,  
    position_name VARCHAR(50) NOT NULL,  
    FOREIGN KEY (emp_id) REFERENCES Employee(emp_id) ON  
DELETE CASCADE  
);
```

```
CREATE TABLE EmployeeDepartment(  
    emp_id INT NOT NULL,  
    dept_id INT NOT NULL,  
    FOREIGN KEY (emp_id) REFERENCES Employee(emp_id) ON  
DELETE CASCADE,  
    FOREIGN KEY (dept_id) REFERENCES Department(dept_id)  
ON DELETE CASCADE,  
    PRIMARY KEY (emp_id, dept_id)  
);
```

```
INSERT INTO Employee(emp_id, name, email, address, gender,  
date_of_joining)  
VALUES
```

```
(101, 'John Doe', 'john.doe@example.com', '1234 Elm  
Street, California', 'male', '2020-05-20'),
```

```
(102, 'Jane Smith', 'jane.smith@example.com', '5678 Oak  
Avenue, New York', 'female', '2019-07-15'),
```

```
(103, 'Mike Johnson', 'mike.johnson@example.com', '4321  
Pine Road, Texas', 'male', '2021-01-10'),
```

```
(104, 'Alice Brown', 'alice.brown@example.com', '7890  
Maple Street, California', 'female', '2022-03-01'),
```



```
(105, 'David Clark', 'david.clark@example.com', '1234
Birchwood, Florida', 'male', '2020-08-12'),
(106, 'Sarah Miller', 'sarah.miller@example.com', '8765
Cedar Blvd, Nevada', 'female', '2021-06-20'),
(107, 'Emily White', 'emily.white@example.com', '3456
Redwood Drive, Ohio', 'female', '2019-09-25'),
(108, 'Daniel King', 'daniel.king@example.com', '2345 Fir
Avenue, Arizona', 'male', '2022-07-13'),
(109, 'Sophia Green', 'sophia.green@example.com', '5432
Maple Avenue, Texas', 'female', '2020-01-30'),
(110, 'James Adams', 'james.adams@example.com', '4567
Oak Street, California', 'male', '2021-02-12'),
(111, 'Benjamin Scott', 'benjamin.scott@example.com',
'8901 Pine Lane, Georgia', 'male', '2021-11-01'),
(112, 'Charlotte Carter', 'charlotte.carter@example.com',
'1357 Oak Blvd, Michigan', 'female', '2022-05-25');
```

```
INSERT INTO Department(dept_id, dept_name, location)
VALUES
```

```
(11, 'Human Resources', 'California'),
(12, 'Finance', 'New York'),
(13, 'Engineering', 'Texas');
```

```
INSERT INTO Salary(salary_id, emp_id, basic_salary, bonus,
deductions)
```

```
VALUES
```

```
(201, 101, 5000, 500, 200),
(202, 102, 6000, 600, 250),
(203, 103, 7000, 700, 300),
(204, 104, 6500, 650, 150),
(205, 105, 7500, 750, 100),
```




```
(206, 106, 8000, 800, 350),  
(207, 107, 5500, 500, 200),  
(208, 108, 6700, 670, 150),  
(209, 109, 7200, 720, 250),  
(210, 110, 7800, 780, 300),  
(211, 111, 8200, 820, 400),  
(212, 112, 8800, 880, 450);
```

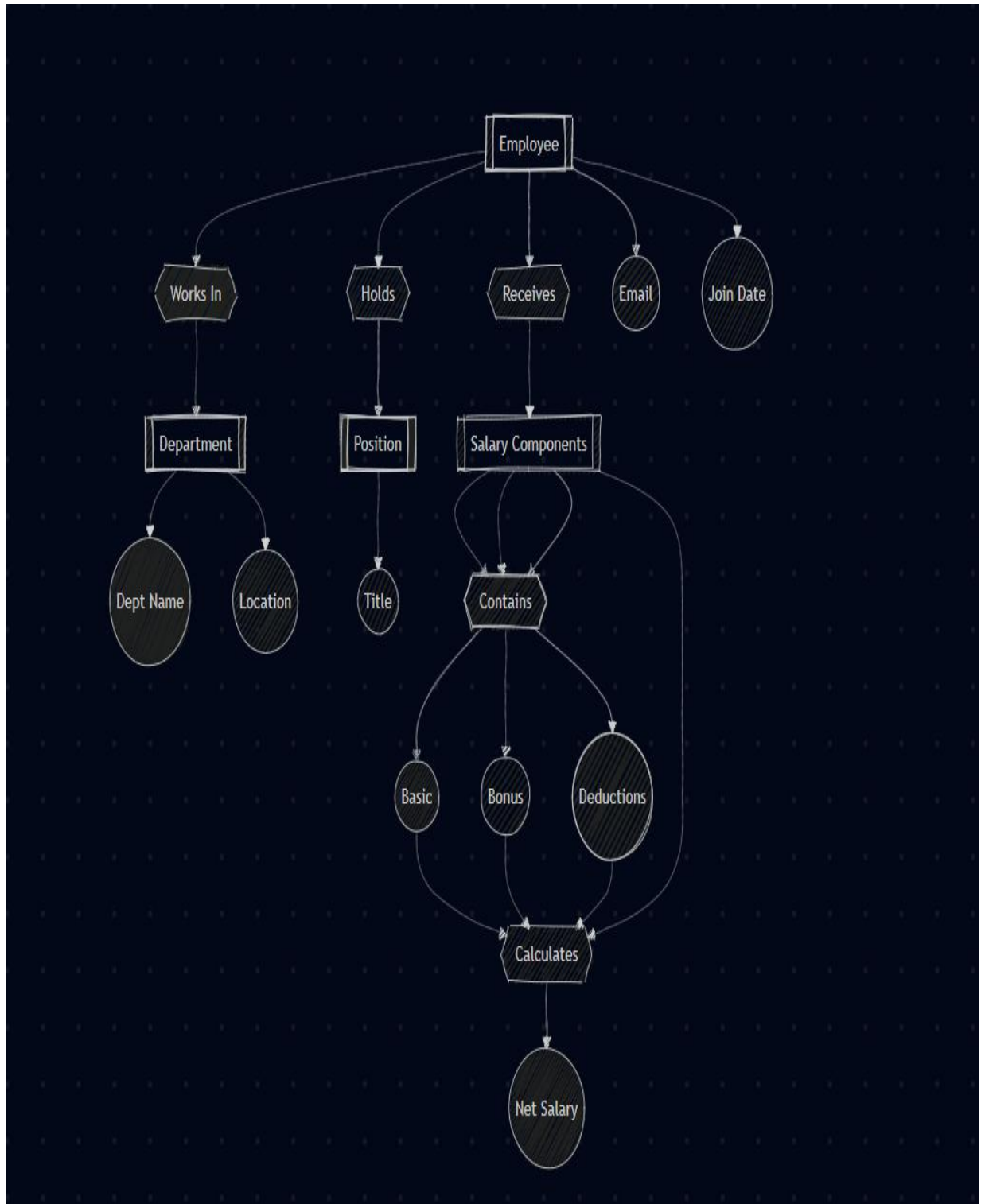
```
INSERT INTO Position(pos_id, emp_id, position_name)  
VALUES
```

```
(301, 101, 'HR Manager'),  
(302, 102, 'Financial Analyst'),  
(303, 103, 'Software Engineer'),  
(304, 104, 'Marketing Executive'),  
(305, 105, 'HR Assistant'),  
(306, 106, 'Financial Manager'),  
(307, 107, 'Content Writer'),  
(308, 108, 'Software Developer'),  
(309, 109, 'Accountant'),  
(310, 110, 'Financial Planner'),  
(311, 111, 'Web Developer'),  
(312, 112, 'Project Manager');
```

```
INSERT INTO EmployeeDepartment(emp_id, dept_id)  
VALUES
```

```
(101, 11), (102, 12), (103, 13),  
(104, 13), (105, 11), (106, 12),  
(107, 11), (108, 13), (109, 12),  
(110, 13), (111, 12), (112, 11);
```

- **ER DIAGRAM:**



- **TABLE REALTION:**

Table 1	Table 2	Relationship Type
Employee	Salary	One-to-One (each employee has one salary record)
Employee	Position	One-to-One (each employee holds one position)
Employee	EmployeeDepartment	One-to-Many (employee can be assigned to many departments)
Department	EmployeeDepartment	One-to-Many (a department has many employees)
Employee	Salary	One-to-One (linked via emp_id as FK)

- **TABULAR FORMAT:**

Employee

emp_id (INT, PK)

name (VARCHAR)

email (VARCHAR, UNIQUE)

address (VARCHAR)

gender (VARCHAR)

date_of_joining (DATE)



Department

dept_id (INT, PK)

dept_name (VARCHAR)

location (VARCHAR)

Salary

salary_id (INT, PK)

emp_id (INT, FK → Employee.emp_id)

basic_salary (DECIMAL)

bonus (DECIMAL)

deductions (DECIMAL)

total_salary (DECIMAL, generated)

Position

pos_id (INT, PK)

emp_id (INT, FK → Employee.emp_id)

position_name (VARCHAR)

EmployeeDepartment

emp_id (INT, FK → Employee.emp_id)

dept_id (INT, FK → Department.dept_id)

PK: (emp_id, dept_id)

- **SQL QUERIES WITH OUTPUT (at least 15):**

1. Get all employee names and their total salary

sql

Copy code

```
SELECT e.name, s.total_salaryFROM Employee eJOIN Salary s ON  
e.emp_id = s.emp_id;
```

2. Update salary of an employee

sql

Copy code

```
UPDATE SalarySET basic_salary = 5500, bonus = 550, deductions =  
100WHERE emp_id = 101;
```

3. Delete an employee and cascade related records

sql

Copy code

```
DELETE FROM EmployeeWHERE email =  
'alice.brown@example.com';
```

4. Select employee, department, and total salary

sql

Copy code

```
SELECT e.name, d.dept_name, s.total_salaryFROM Employee eJOIN  
EmployeeDepartment ed ON e.emp_id = ed.emp_idJOIN  
Department d ON ed.dept_id = d.dept_idJOIN Salary s ON e.emp_id  
= s.emp_id;
```

5. Select employee names and their positions

sql

Copy code

```
SELECT e.name, p.position_nameFROM Employee eJOIN Position p  
ON e.emp_id = p.emp_id;
```

6. Total salary of all employees per department

sql

Copy code

```
SELECT d.dept_name, SUM(s.total_salary) AS total_salaryFROM  
Department dJOIN EmployeeDepartment ed ON d.dept_id =  
ed.dept_idJOIN Employee e ON ed.emp_id = e.emp_idJOIN Salary s  
ON e.emp_id = s.emp_idGROUP BY d.dept_name;
```

7. Employees who joined after 2021

sql

Copy code



```
SELECT name, date_of_joining FROM Employee WHERE  
date_of_joining > '2021-01-01';
```

8. List all female employees

sql

Copy code

```
SELECT name FROM Employee WHERE gender = 'female';
```

9. Count of employees per department

sql

Copy code

```
SELECT d.dept_name, COUNT(*) AS total_employees FROM  
Department d JOIN EmployeeDepartment ed ON d.dept_id =  
ed.dept_id GROUP BY d.dept_name;
```

10. Top 3 employees by salary

sql

Copy code

```
SELECT e.name, s.total_salary FROM Employee e JOIN Salary s ON  
e.emp_id = s.emp_id ORDER BY s.total_salary DESC  
LIMIT 3;
```

11. Find employees whose salary is more than 7000



sql

Copy code

```
SELECT e.name, s.total_salaryFROM Employee eJOIN Salary s ON  
e.emp_id = s.emp_idWHERE s.total_salary > 7000;
```

12. Find employees working in California

sql

Copy code

```
SELECT nameFROM EmployeeWHERE address LIKE '%California%';
```

13. List employee names and their joining year

sql

Copy code

```
SELECT name, YEAR(date_of_joining) AS joining_yearFROM  
Employee;
```

14. Average salary in each department

sql

Copy code

```
SELECT d.dept_name, AVG(s.total_salary) AS avg_salaryFROM  
Department dJOIN EmployeeDepartment ed ON d.dept_id =  
ed.dept_idJOIN Salary s ON ed.emp_id = s.emp_idGROUP BY  
d.dept_name;
```

15. Find departments without any employees (if any)

sql

Copy code

```
SELECT dept_name FROM Department WHERE dept_id NOT IN (  
    SELECT DISTINCT dept_id FROM EmployeeDepartment  
);
```

```
113  
114 -- 1. Get all employee names and their total salary  
115 • SELECT e.emp_id, e.name, s.total_salary  
116 FROM Employee e  
117 LEFT JOIN Salary s ON e.emp_id = s.emp_id;
```

Result Grid

	emp_id	name	total_salary
▶	101	John Doe	5300.00
	102	Jane Smith	6350.00
	103	Mike Johnson	7400.00
	104	Alice Brown	7000.00
	105	David Clark	8150.00
	106	Sarah Miller	8450.00
	107	Emily White	5800.00
	108	Daniel King	7220.00
	109	Sophia Green	7670.00
	110	James Adams	8280.00
	111	Benjamin Scott	8620.00
	112	Charlotte Ca...	9230.00

Result 4 x

```

119 -- 2. Update salary of an employee
120 • UPDATE Salary
121 SET basic_salary = 5500, bonus = 550, deductions = 100
122 WHERE emp_id = 101;
123
124 -- 3. Delete an employee and cascade related records
125 • DELETE FROM Employee
126 WHERE email = 'alice.brown@example.com';
127
128 -- 4. Select employee, department, and total salary
129 • SELECT e.name, d.dept_name, s.total_salary
130 FROM Employee e
131 JOIN EmployeeDepartment ed ON e.emp_id = ed.emp_id
132 JOIN Department d ON ed.dept_id = d.dept_id
133 JOIN Salary s ON e.emp_id = s.emp_id;
134
135 -- 5. Select employee names and their positions
136 • SELECT e.name, p.position_name

```

Output

Action Output

#	Time	Action
✓ 55	11:14:03	INSERT INTO Department(dept_id, dept_name, location) VALUES (11, 'Human Resources', 'California'), (12, 'Finance
✓ 56	11:14:03	INSERT INTO Salary(salary_id, emp_id, basic_salary, bonus, deductions) VALUES (201, 101, 5000, 500, 200), (202,
✗ 57	11:14:03	INSERT INTO Position(pos_id, emp_id, position_name) VALUES (301, 101, 'HR Manager'), (302, 102, 'Financial Anal
✓ 58	11:15:08	INSERT INTO 'Position'(pos_id, emp_id, position_name) VALUES (301, 101, 'HR Manager'), (302, 102, 'Financial Ana
✓ 59	11:15:16	SELECT e.emp_id, e.name, s.total_salary FROM Employee e LEFT JOIN Salary s ON e.emp_id = s.emp_id LIMIT 0, 1000
✓ 60	11:15:41	UPDATE Salary SET basic_salary = 5500, bonus = 550, deductions = 100 WHERE emp_id = 101

```

122  WHERE emp_id = 101;
123
124  -- 3. Delete an employee and cascade related records
125  • DELETE FROM Employee
126  WHERE email = 'alice.brown@example.com';
127
128  -- 4. Select employee, department, and total salary
129  • SELECT e.name, d.dept_name, s.total_salary
130  FROM Employee e
131  JOIN EmployeeDepartment ed ON e.emp_id = ed.emp_id
132  JOIN Department d ON ed.dept_id = d.dept_id
133  JOIN Salary s ON e.emp_id = s.emp_id;
134
135  -- 5. Select employee names and their positions
136  • SELECT e.name, p.position_name

```

Output

📄 Action Output ▼

	#	Time	Action
✓	56	11:14:03	INSERT INTO Salary(salary_id, emp_id, basic_salary, bonus, deductions) VALUES (201, 101, 5000, 500, 100);
✗	57	11:14:03	INSERT INTO Position(pos_id, emp_id, position_name) VALUES (301, 101, 'HR Manager'), (302, 101, 'Software Engineer');
✓	58	11:15:08	INSERT INTO 'Position'(pos_id, emp_id, position_name) VALUES (301, 101, 'HR Manager'), (302, 101, 'Software Engineer');
✓	59	11:15:16	SELECT e.emp_id, e.name, s.total_salary FROM Employee e LEFT JOIN Salary s ON e.emp_id = s.emp_id;
✓	60	11:15:41	UPDATE Salary SET basic_salary = 5500, bonus = 550, deductions = 100 WHERE emp_id = 101
✓	61	11:15:52	DELETE FROM Employee WHERE email = 'alice.brown@example.com'

```
134
135 -- 5. Select employee names and their positions
136 • SELECT e.name, p.position_name
137 FROM Employee e
138 JOIN Position p ON e.emp_id = p.emp_id;
139
140 -- 6. Total salary of all employees per department
141 • SELECT d.dept_name, SUM(s.total_salary) AS total_salary
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	name	position_name
▶	John Doe	HR Manager
	Jane Smith	Financial Analyst
	Mike Johnson	Software Engineer
	David Clark	HR Assistant
	Sarah Miller	Financial Manager
	Emily White	Content Writer
	Daniel King	Software Developer
	Sophia Green	Accountant
	James Adams	Financial Planner
	Benjamin Scott	Web Developer
	Charlotte Carter	Project Manager

Result 6 x

```
148 -- 7. Employees who joined after 2021
149 • SELECT name, date_of_joining
150 FROM Employee
151 WHERE date_of_joining > '2021-01-01';
152
153 -- 8. List all female employees
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	name	date_of_joining
▶	Mike Johnson	2021-01-10
	Sarah Miller	2021-06-20
	Daniel King	2022-07-13
	James Adams	2021-02-12
	Benjamin Scott	2021-11-01
	Charlotte Carter	2022-05-25

```
154 • SELECT name
155 FROM Employee
156 WHERE gender = 'female';
157
158 -- 9. Count of employees per department
159 • SELECT d.dept_name, COUNT(*) AS total_employees
160 FROM Department d
161 JOIN EmployeeDepartment ed ON d.dept_id = ed.dept_id
162 GROUP BY d.dept_name;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	name
▶	Jane Smith
	Sarah Miller
	Emily White
	Sophia Green
	Charlotte Carter


```

165 • SELECT e.name, s.total_salary
166 FROM Employee e
167 JOIN Salary s ON e.emp_id = s.emp_id
168 ORDER BY s.total_salary DESC
169 LIMIT 3;
170
171 -- 11. Find employees whose salary is more than 7000

```





Result Grid |   Filter Rows: | Export:  | Wrap Cell Content:  | Fe

	name	total_salary
▶	Charlotte Carter	9230.00
	Benjamin Scott	8620.00
	Sarah Miller	8450.00

```





172 • SELECT e.name, s.total_salary
173 FROM Employee e
174 JOIN Salary s ON e.emp_id = s.emp_id
175 WHERE s.total_salary > 7000;
176
177 -- 12. Find employees working in California

```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content:  | Fe

	name	total_salary
▶	Mike Johnson	7400.00
	David Clark	8150.00
	Sarah Miller	8450.00
	Daniel King	7220.00
	Sophia Green	7670.00
	James Adams	8280.00
	Benjamin Scott	8620.00
	Charlotte Carter	9230.00

```
178 • SELECT Execute the statement under the keyboard cursor  
179 FROM Employee  
180 WHERE address LIKE '%California%';  
181  
182 -- 13. List employee names and their joining year  
183 • SELECT name, YEAR(date_of_joining) AS joining_year  
184 FROM Employee;  
185  
186 -- 14. Average salary in each department
```

Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

	name
▶	John Doe
	James Adams



```
183 • SELECT name, YEAR(date_of_joining) AS joining_year
184 FROM Employee;
185
186 -- 14. Average salary in each department
187 • SELECT d.dept_name, AVG(s.total_salary) AS avg_salary
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	name	joining_year
▶	John Doe	2020
	Jane Smith	2019
	Mike Johnson	2021
	David Clark	2020
	Sarah Miller	2021
	Emily White	2019
	Daniel King	2022
	Sophia Green	2020
	James Adams	2021
	Benjamin Scott	2021
	Charlotte Carter	2022

Result 14 x

```
194 • SELECT dept_name
195 FROM Department
196 WHERE dept_id NOT IN (
197 SELECT DISTINCT dept_id FROM EmployeeDepartment
198 );
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	dept_name
	Human Resources
	Finance
	Engineering

• SUMMARY:

The **Salary Management System (SMS)** is a well-structured and normalized relational database system designed to efficiently manage salary-related and organizational information for employees. It plays a critical role in automating tasks that were previously performed manually, such as calculating total salaries, assigning positions, managing departments, and ensuring employee data consistency.

Built using **MySQL**, the SMS is composed of multiple interlinked tables—such as Employee, Salary, Department, Position, and EmployeeDepartment—that form the backbone of the system. Each table is connected through primary and foreign key constraints to ensure data consistency and relational integrity. The normalization applied throughout the design ensures minimal redundancy and improved data retrieval performance.

This system supports a wide range of core functionalities including:

Accurate **salary calculation**, using basic pay, bonuses, and deductions.

Assignment of **employees to departments** for structured organizational management.

Tracking of **employee roles and positions** within the company hierarchy.



Generation of **analytical reports** like average department salary, top earners, or departmental payroll statistics.

Enforcement of **data integrity rules** using constraints such as CHECK, UNIQUE, and cascading foreign keys.

Furthermore, the SMS database is optimized for scalability and extensibility. Additional modules such as attendance tracking, taxation records, leave management, and payroll distribution can be seamlessly integrated in the future. The use of SQL queries with aggregation and joins ensures that the system not only stores data but also provides powerful insights into organizational operations.

In summary, the SMS ensures smooth operation of payroll and HR activities, supports organizational transparency, and allows decision-makers to act on reliable and timely data.

• **CONCLUSION:**

The **Salary Management System (SMS) Database** provides a comprehensive solution for handling employee information, salary structure, departmental allocation, and positional responsibilities in a structured and efficient manner. It showcases how an organization can streamline HR and financial operations using the principles of **relational database management systems (RDBMS)**.

By utilizing a normalized schema, the system avoids data duplication and ensures that all employee-related records are properly linked and synchronized across various tables. The inclusion of CHECK constraints and FOREIGN KEY relationships ensures that only valid, consistent, and complete data is stored in the system. Moreover, the use of computed fields like total_salary in the Salary table demonstrates how automation can be used to reduce manual calculations and potential errors.

This project also demonstrates the power of **SQL** for real-world applications. Through a variety of **SELECT, JOIN, AGGREGATE, UPDATE, DELETE, and INSERT** queries, the system enables flexible



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data handling and dynamic reporting—ranging from individual employee pay summaries to department-wide payroll analytics.

Key benefits realized through this system include:

Efficiency: Reduces manual workload by automating salary and departmental record management.

Accuracy: Eliminates discrepancies by enforcing strict validation rules and constraints.

Scalability: Supports future enhancements without redesigning the existing structure.

Integrity: Maintains relational integrity and ensures that linked data remains consistent.

In conclusion, the Salary Management System Database not only fulfills the fundamental requirements of employee salary management but also lays a solid foundation for more advanced HR and financial systems. It is a reliable, secure, and intelligent system that improves organizational productivity, transparency, and decision-making.



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