```sql
SELECT name, YEAR(date_of_joining) AS joining_year
FROM Employee;

-- 14. Average salary in each department
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

```sql
SELECT
FROM Employee
WHERE address LIKE '%California%';

-- 13. List employee names and their joining year
SELECT name, YEAR(date_of_joining) AS joining_year
FROM Employee;

-- 14. Average salary in each department
```

Execute the statement under the keyboard cursor

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

name
John Doe
James Adams

```sql
SELECT e.name, s.total_salary
FROM Employee e
JOIN Salary s ON e.emp_id = s.emp_id
WHERE s.total_salary > 7000;

-- 12. Find employees working in California
```

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

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

```sql
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
```

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

name	total_salary
Charlotte Carter	9230.00
Benjamin Scott	8620.00
Sarah Miller	8450.00

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

-- 9. Count of employees per department
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;
```

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

name
Jane Smith
Sarah Miller
Emily White
Sophia Green
Charlotte Carter

```sql
-- 7. Employees who joined after 2021
SELECT name, date_of_joining
FROM Employee
WHERE date_of_joining > '2021-01-01';

-- 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

```
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 ×

```
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, 5
57	11:14:03	INSERT INTO Position(pos_id, emp_id, position_name) VALUES (301, 101, 'HR Manager'), (302, 1
58	11:15:08	INSERT INTO `Position`(pos_id, emp_id, position_name) VALUES (301, 101, 'HR Manager'), (302,
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_
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'

```sql
-- 2. Update salary of an employee
UPDATE Salary
SET basic_salary = 5500, bonus = 550, deductions = 100
WHERE emp_id = 101;

-- 3. Delete an employee and cascade related records
DELETE FROM Employee
WHERE email = 'alice.brown@example.com';

-- 4. Select employee, department, and total salary
SELECT e.name, d.dept_name, s.total_salary
FROM Employee e
JOIN EmployeeDepartment ed ON e.emp_id = ed.emp_id
JOIN Department d ON ed.dept_id = d.dept_id
JOIN Salary s ON e.emp_id = s.emp_id;

-- 5. Select employee names and their positions
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

```sql
-- 1. Get all employee names and their total salary
SELECT e.emp_id, e.name, s.total_salary
FROM Employee e
LEFT JOIN Salary s ON e.emp_id = s.emp_id;
```

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

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 ×

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

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

dept_name
Human Resources
Finance
Engineering