**Employee SQL Queries and Results**

**Employee Table Structure:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EmpID | EmpName | Department | Salary | Experience | City |
| 1 | Rahul | IT | 60000 | 5 | Ahmedabad |
| 2 | Sneha | HR | 50000 | 3 | Surat |
| 3 | Amit | IT | 75000 | 7 | Ahmedabad |
| 4 | Priya | Finance | 65000 | 6 | Vadodara |
| 5 | Kunal | IT | 55000 | 2 | Surat |
| 6 | Rina | HR | 48000 | 1 | Ahmedabad |
| 7 | Mehul | Finance | 70000 | 4 | Rajkot |
| 8 | Nisha | IT | 80000 | 8 | Ahmedabad |
| 9 | Yash | Marketing | 45000 | 2 | Vadodara |
| 10 | Disha | Marketing | 47000 | 3 | Surat |

**Query-1:** Find employees who earn more than the average salary of all employees.

**SELECT \* FROM Employee WHERE Salary > (SELECT AVG(Salary) FROM Employee);**

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Col1 | Col2 | Col3 | Col4 | Col5 | Col6 |
| 3 | Amit | IT | 75000 | 7 | Ahmedabad |
| 4 | Priya | Finance | 65000 | 6 | Vadodara |
| 7 | Mehul | Finance | 70000 | 4 | Rajkot |
| 8 | Nisha | IT | 80000 | 8 | Ahmedabad |

**Query-2:** Find employees from departments that have more than 2 employees.

**SELECT \* FROM Employee WHERE Department IN (  
SELECT Department FROM Employee GROUP BY Department HAVING COUNT(\*) > 2);**

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Col1 | Col2 | Col3 | Col4 | Col5 | Col6 |
| 1 | Rahul | IT | 60000 | 5 | Ahmedabad |
| 3 | Amit | IT | 75000 | 7 | Ahmedabad |
| 5 | Kunal | IT | 55000 | 2 | Surat |
| 8 | Nisha | IT | 80000 | 8 | Ahmedabad |
| 2 | Sneha | HR | 50000 | 3 | Surat |
| 6 | Rina | HR | 48000 | 1 | Ahmedabad |

**Query-3:** Find the highest-paid employee from the 'IT' department.

**SELECT \* FROM Employee WHERE Department = 'IT' ORDER BY Salary DESC LIMIT 1;**

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Col1 | Col2 | Col3 | Col4 | Col5 | Col6 |
| 8 | Nisha | IT | 80000 | 8 | Ahmedabad |

**Query-4:** List employees who work in the same city as 'Sneha'.

**SELECT \* FROM Employee WHERE City = (  
SELECT City FROM Employee WHERE EmpName = 'Sneha');**

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Col1 | Col2 | Col3 | Col4 | Col5 | Col6 |
| 2 | Sneha | HR | 50000 | 3 | Surat |
| 5 | Kunal | IT | 55000 | 2 | Surat |
| 10 | Disha | Marketing | 47000 | 3 | Surat |

**Query-5:** List employees who have more experience than the average experience.

**SELECT \* FROM Employee WHERE Experience > (SELECT AVG(Experience) FROM Employee);**

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Col1 | Col2 | Col3 | Col4 | Col5 | Col6 |
| 3 | Amit | IT | 75000 | 7 | Ahmedabad |
| 4 | Priya | Finance | 65000 | 6 | Vadodara |
| 8 | Nisha | IT | 80000 | 8 | Ahmedabad |

**Query-6:** Count the number of employees in each department.

**SELECT Department, COUNT(\*) FROM Employee GROUP BY Department;**

Result:

|  |  |
| --- | --- |
| Col1 | Col2 |
| IT | 4 |
| HR | 2 |
| Finance | 2 |
| Marketing | 2 |

**Query-7:** Find the average salary in each department.

**SELECT Department, AVG(Salary) FROM Employee GROUP BY Department;**

Result:

|  |  |
| --- | --- |
| Col1 | Col2 |
| IT | 67500.0 |
| HR | 49000.0 |
| Finance | 67500.0 |
| Marketing | 46000.0 |

**Query-8:** Find departments having more than 2 employees.

**SELECT Department FROM Employee GROUP BY Department HAVING COUNT(\*) > 2;**

Result:

|  |
| --- |
| Col1 |
| IT |

**Query-9:** Find departments where average salary is more than 60000.

**SELECT Department FROM Employee GROUP BY Department HAVING AVG(Salary) > 60000;**

Result:

|  |
| --- |
| Col1 |
| IT |
| Finance |

**Query-10:** Find city-wise total salary of employees.

**SELECT City, SUM(Salary) FROM Employee GROUP BY City;**

Result:

|  |  |
| --- | --- |
| Col1 | Col2 |
| Ahmedabad | 263000 |
| Surat | 152000 |
| Vadodara | 110000 |
| Rajkot | 70000 |

**Query-11:** Find departments where total salary is more than total salary of 'HR'.

**SELECT Department FROM Employee GROUP BY Department HAVING SUM(Salary) >  
(SELECT SUM(Salary) FROM Employee WHERE Department = 'HR');**

Result:

|  |
| --- |
| Col1 |
| IT |
| Finance |

**Query-12:** Find employees whose salary is above the average salary of their own department.

**SELECT e.\* FROM Employee e WHERE Salary > (  
SELECT AVG(Salary) FROM Employee WHERE Department = e.Department);**

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Col1 | Col2 | Col3 | Col4 | Col5 | Col6 |
| 3 | Amit | IT | 75000 | 7 | Ahmedabad |
| 8 | Nisha | IT | 80000 | 8 | Ahmedabad |
| 7 | Mehul | Finance | 70000 | 4 | Rajkot |
| 2 | Sneha | HR | 50000 | 3 | Surat |

**Query-13:** List departments where the maximum salary is above 75000.

**SELECT Department FROM Employee GROUP BY Department HAVING MAX(Salary) > 75000;**

Result:

|  |
| --- |
| Col1 |
| IT |

Explanation: This shows departments where the top salary exceeds 75,000.

**Query-14:** List cities where more than one department is present.

**SELECT City FROM Employee GROUP BY City HAVING COUNT(DISTINCT Department) > 1;**

Result:

|  |
| --- |
| Col1 |
| Ahmedabad |
| Surat |
| Vadodara |

**Query-15:** Find top 1 highest paid employee in each department.

**SELECT e.\* FROM Employee e WHERE Salary = (  
SELECT MAX(Salary) FROM Employee WHERE Department = e.Department);**

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Col1 | Col2 | Col3 | Col4 | Col5 | Col6 |
| 8 | Nisha | IT | 80000 | 8 | Ahmedabad |
| 2 | Sneha | HR | 50000 | 3 | Surat |
| 7 | Mehul | Finance | 70000 | 4 | Rajkot |
| 10 | Disha | Marketing | 47000 | 3 | Surat |