Create a table of Employees with below mentioned fields and insert the data and then write the queries to the below questions.

EMPLOYEE\_ID | FIRST\_NAME | LAST\_NAME | EMAIL | PHONE\_NUMBER | HIRE\_DATE | JOB\_ID | SALARY | COMMISSION\_PCT | MANAGER\_ID | DEPARTMENT\_ID |

+-------------+-------------+-------------+----------+--------------------+------------+------------+----------+----------------+------------+---------------+

| 100 | Steven | King | SKING | 515.123.4567 | 1987-06-17 | AD\_PRES | 24000.00 | 0.00 | 0 | 90 |

| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1987-06-18 | AD\_VP | 17000.00 | 0.00 | 100 | 90 |

| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1987-06-19 | AD\_VP | 17000.00 | 0.00 | 100 | 90 |

| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1987-06-20 | IT\_PROG | 9000.00 | 0.00 | 102 | 60 |

| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1987-06-21 | IT\_PROG | 6000.00 | 0.00 | 103 | 60 |

| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT\_PROG | 4800.00 | 0.00 | 103 | 60 |

| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | IT\_PROG | 4800.00 | 0.00 | 103 | 60 |

| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1987-06-24 | IT\_PROG | 4200.00 | 0.00 | 103 | 60 |

| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1987-06-25 | FI\_MGR | 12000.00 | 0.00 | 101 | 100 |

| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1987-06-26 | FI\_ACCOUNT | 9000.00 | 0.00 | 108 | 100 |

| 110 | John | Chen | JCHEN | 515.124.4269 | 1987-06-27 | FI\_ACCOUNT | 8200.00 | 0.00 | 108 | 100 |

| 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1987-06-28 | FI\_ACCOUNT | 7700.00 | 0.00 | 108 | 100 |

| 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1987-06-29 | FI\_ACCOUNT | 7800.00 | 0.00 | 108 | 100 |

| 113 | Luis | Popp | LPOPP | 515.124.4567 | 1987-06-30 | FI\_ACCOUNT | 6900.00 | 0.00 | 108 | 100 |

| 114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 1987-07-01 | PU\_MAN | 11000.00 | 0.00 | 100 | 30 |

| 115 | Alexander | Khoo | AKHOO | 515.127.4562 | 1987-07-02 | PU\_CLERK | 3100.00 | 0.00 | 114 | 30 |

1. Write a query to list the number of jobs available in the employees table

**2.** Write a query to get the total salaries payable to employees. 

**3.** Write a query to get the minimum salary from employees table. 

**4.** Write a query to get the maximum salary of an employee working as a Programmer. 

**5.** Write a query to get the average salary and number of employees working the department 90. 

**6.** Write a query to get the highest, lowest, sum, and average salary of all employees. 

**7.**Write a query to get the number of employees with the same job. 

**8.** Write a query to get the difference between the highest and lowest salaries. 

**9.** Write a query to find the manager ID and the salary of the lowest-paid employee for that manager. 

**10.** Write a query to get the department ID and the total salary payable in each department. 

**11.** Write a query to get the average salary for each job ID excluding programmer. 

**12.** Write a query to get the total salary, maximum, minimum, average salary of employees (job ID wise), for department ID 90 only. 

**13.** Write a query to get the job ID and maximum salary of the employees where maximum salary is greater than or equal to $4000. 

**14.** Write a query to get the average salary for all departments employing more than 10 employees. 

**SOLUTIONS:**

1. 1. Write a query to list the number of jobs available in the employees table

SELECT COUNT(DISTINCT job\_id)

FROM employees;

1. Write a query to get the total salaries payable to employees.

SELECT SUM(salary)

FROM employees;

1. Write a query to get the minimum salary from employees table.

SELECT MIN(salary)

FROM employees;

**4.** Write a query to get the maximum salary of an employee working as a Programmer. 

SELECT MAX(salary)

FROM employees;

WHERE job\_id = 'IT\_PROG';

**5.** Write a query to get the average salary and number of employees working the department 90. 

SELECT AVG(salary),count(\*)

FROM employees

WHERE department\_id = 90;

**6.** Write a query to get the highest, lowest, sum, and average salary of all employees. 

SELECT ROUND(MAX(salary),0) 'Maximum',

ROUND(MIN(salary),0) 'Minimum',

ROUND(SUM(salary),0) 'Sum',

ROUND(AVG(salary),0) 'Average'

FROM employees;

**7.**Write a query to get the number of employees with the same job. 

SELECT job\_id, COUNT(\*)

FROM employees

GROUP BY job\_id;

**8.** Write a query to get the difference between the highest and lowest salaries. 

SELECT MAX(salary) - MIN(salary) DIFFERENCE

FROM employees;

**9.** Write a query to find the manager ID and the salary of the lowest-paid employee for that manager. 

SELECT manager\_id, MIN(salary)

FROM employees

WHERE manager\_id IS NOT NULL

GROUP BY manager\_id

ORDER BY MIN(salary) DESC;

**10.** Write a query to get the department ID and the total salary payable in each department. 

SELECT department\_id, SUM(salary)

FROM employees

GROUP BY department\_id;

**11.** Write a query to get the average salary for each job ID excluding programmer. 

SELECT job\_id, AVG(salary)

FROM employees

WHERE job\_id <> 'IT\_PROG'

GROUP BY job\_id;

**12.** Write a query to get the total salary, maximum, minimum, average salary of employees (job ID wise), for department ID 90 only. 

SELECT job\_id, SUM(salary), AVG(salary), MAX(salary), MIN(salary)

FROM employees

WHERE department\_id = '90'

GROUP BY job\_id;

**13.** Write a query to get the job ID and maximum salary of the employees where maximum salary is greater than or equal to $4000. 

SELECT job\_id, MAX(salary)

FROM employees

GROUP BY job\_id

HAVING MAX(salary) >=4000;

**14.** Write a query to get the average salary for all departments employing more than 10 employees. 

SELECT department\_id, AVG(salary), COUNT(\*)

FROM employees

GROUP BY department\_id

HAVING COUNT(\*) > 10;