**1. List all the employee details.**

mysql> select \* from employee;

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

| Employee\_Id | Lastname | Firstname | Middlename | Job\_Id | Manager\_Id | Hiredate | Salary | Department\_Id |

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

| 7369 | Smith | Jon | Q | 667 | 7902 | 1984-12-17 | 800 | 10 |

| 7499 | Allen | Kevin | J | 670 | 7698 | 1985-02-20 | 1600 | 20 |

| 7505 | Doyle | Jean | K | 671 | 7839 | 1985-04-04 | 2850 | 20 |

| 7506 | Dennis | Lynn | S | 671 | 7839 | 1985-05-15 | 2750 | 30 |

| 7507 | Baker | Leslie | D | 671 | 7839 | 1985-06-10 | 2200 | 40 |

| 7521 | wark | cynthia | D | 670 | 7698 | 1985-02-22 | 1250 | 10 |

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

6 rows in set (0.00 sec)

**2. List all the department details.**

mysql> select \* from department;

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

| Department\_Id | Name | Location\_Id |

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

| 10 | Accounting | 122 |

| 20 | Research | 124 |

| 30 | Sale | 123 |

| 40 | Operation | 167 |

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

4 rows in set (0.00 sec)

**3. List all job details.**

mysql> select \* from job;

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

| Job\_Id | Function |

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

| 667 | Cleark |

| 668 | Staff |

| 669 | Analyst |

| 670 | Saleperson |

| 671 | Manager |

| 672 | President |

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

6 rows in set (0.00 sec)

**4. List all the locations.**

mysql> select regional\_group from location;

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

| regional\_group |

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

| New York |

| Dallas |

| Chicago |

| Boston |

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

4 rows in set (0.00 sec)

**5. List out first name, last name, salary, for all employees.**

mysql> select firstname, lastname, salary

-> from employee;

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

| firstname | lastname | salary |

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

| Jon | Smith | 800 |

| Kevin | Allen | 1600 |

| Jean | Doyle | 2850 |

| Lynn | Dennis | 2750 |

| Leslie | Baker | 2200 |

| cynthia | wark | 1250 |

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

6 rows in set (0.00 sec)

**6. List out employee\_id, last name, department\_id for all employees and rename employee id as “ID of the Employee”, last name as “Name of the Employee”, department id as “Deparment ID”.**

mysql> select employee\_id as 'ID OF THE EMPLOYEE', lastname as 'NAME OF THE EMPLOYEE', department\_id as 'Department ID'

-> from employee;

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

| ID OF THE EMPLOYEE | NAME OF THE EMPLOYEE | Department ID |

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

| 7369 | Smith | 10 |

| 7499 | Allen | 20 |

| 7505 | Doyle | 20 |

| 7506 | Dennis | 30 |

| 7507 | Baker | 40 |

| 7521 | wark | 10 |

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

6 rows in set (0.00 sec)

**7. List out the employee annual salary with their names only.**

mysql> select lastname, firstname, middlename, salary\*12 as 'Annual Salary'

-> from employee;

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

| lastname | firstname | middlename | Annual Salary |

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

| Smith | Jon | Q | 9600 |

| Allen | Kevin | J | 19200 |

| Doyle | Jean | K | 34200 |

| Dennis | Lynn | S | 33000 |

| Baker | Leslie | D | 26400 |

| wark | cynthia | D | 15000 |

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

6 rows in set (0.00 sec)

**Where conditions:**

**8. List the details about “smith”**

mysql> select \*

-> from employee

-> where lastname = 'Smith';

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

| Employee\_Id | Lastname | Firstname | Middlename | Job\_Id | Manager\_Id | Hiredate | Salary | Department\_Id |

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

| 7369 | Smith | Jon | Q | 667 | 7902 | 1984-12-17 | 800 | 10 |

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

1 row in set (0.08 sec)

**9. List out the employee whose job id is 671.**

mysql> select employee\_id, lastname, firstname

-> from employee

-> where job\_id = 671;

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

| employee\_id | lastname | firstname |

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

| 7505 | Doyle | Jean |

| 7506 | Dennis | Lynn |

| 7507 | Baker | Leslie |

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

3 rows in set (0.00 sec)

**10. List out the employees who are earning salary between 3000 and 4500.**

mysql> select employee\_id, lastname, firstname, salary

-> from employee

-> where salary between 3000 and 4500;

Empty set (0.00 sec)

**11. List out the employee who are working in department 10 or 20.**

mysql> select employee\_id, lastname, firstname, department\_id

-> from employee

-> where department\_id = 10 or department\_id = 20;

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

| employee\_id | lastname | firstname | department\_id |

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

| 7369 | Smith | Jon | 10 |

| 7499 | Allen | Kevin | 20 |

| 7505 | Doyle | Jean | 20 |

| 7521 | wark | cynthia | 10 |

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

4 rows in set (0.01 sec)

**12. Find out the employees who are not working in department 10 or 30.**

mysql> select employee\_id, lastname, firstname, department\_id

-> from employee

-> where department\_id <> 10 and department\_id <> 30;

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

| employee\_id | lastname | firstname | department\_id |

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

| 7499 | Allen | Kevin | 20 |

| 7505 | Doyle | Jean | 20 |

| 7507 | Baker | Leslie | 40 |

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

3 rows in set (0.03 sec)

**13. List out the employees whose name start with “s”.**

mysql> select employee\_id, lastname, firstname, middlename

-> from employee

-> where lastname like 's%';

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

| employee\_id | lastname | firstname | middlename |

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

| 7369 | Smith | Jon | Q |

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

1 row in set (0.00 sec)

**14. List out the employees whose name start with “s” and end with “h”.**

mysql> select employee\_id, lastname, firstname, middlename

-> from employee

-> where lastname like 's%h';

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

| employee\_id | lastname | firstname | middlename |

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

| 7369 | Smith | Jon | Q |

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

1 row in set (0.00 sec)

**15. List out the employees whose name length is 4 and start with “s”.**

mysql> select employee\_id, lastname, firstname, middlename

-> from employee

-> where LENGTH(lastname) = 4 and lastname like 's%';

Empty set (0.00 sec)

**16. List out the employees who are working in department 10 and draw the salaries more than 1000.**

mysql> select employee\_id, lastname, firstname, salary

-> from employee

-> where department\_id = 10 and salary > 1000;

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

| employee\_id | lastname | firstname | salary |

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

| 7521 | wark | cynthia | 1250 |

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

1 row in set (0.00 sec)

**17. List out employee id, last name in ascending order based on the employee id.**

mysql> select employee\_id, lastname

-> from employee

-> order by employee\_id;

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

| employee\_id | lastname |

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

| 7369 | Smith |

| 7499 | Allen |

| 7505 | Doyle |

| 7506 | Dennis |

| 7507 | Baker |

| 7521 | wark |

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

6 rows in set (0.00 sec)

**18. List out employee id, last name in descending order based on the salary column.**

mysql> select employee\_id, lastname, salary

-> from employee

-> order by salary desc;

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

| employee\_id | lastname | salary |

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

| 7505 | Doyle | 2850 |

| 7506 | Dennis | 2750 |

| 7507 | Baker | 2200 |

| 7499 | Allen | 1600 |

| 7521 | wark | 1250 |

| 7369 | Smith | 800 |

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

6 rows in set (0.06 sec)

**19. List out employee details according to their last name in ascending order and salaries in descending order.**

mysql> select employee\_id, lastname, salary

-> from employee

-> order by lastname asc,

-> salary desc;

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

| employee\_id | lastname | salary |

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

| 7499 | Allen | 1600 |

| 7507 | Baker | 2200 |

| 7506 | Dennis | 2750 |

| 7505 | Doyle | 2850 |

| 7369 | Smith | 800 |

| 7521 | wark | 1250 |

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

6 rows in set (0.00 sec)

**20. List out employee details according to their last name in ascending order and then on department\_id in descending order.**

mysql> select employee\_id, lastname, department\_id

-> from employee

-> order by lastname asc,

-> department\_id desc;

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

| employee\_id | lastname | department\_id |

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

| 7499 | Allen | 20 |

| 7507 | Baker | 40 |

| 7506 | Dennis | 30 |

| 7505 | Doyle | 20 |

| 7369 | Smith | 10 |

| 7521 | wark | 10 |

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

6 rows in set (0.00 sec)

**21. How many employees who are working in different departments wise in the organization**

mysql> select count(employee\_id) as 'Number of employees', department\_id

-> from employee

-> group by department\_id;

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

| Number of employees | department\_id |

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

| 2 | 10 |

| 2 | 20 |

| 1 | 30 |

| 1 | 40 |

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

4 rows in set (0.03 sec)

**22. List out the department wise maximum salary, minimum salary, average salary of the employees**

mysql> select department\_id,

-> max(salary) as 'Maximum Salary',

-> min(salary) as 'Minimum Salary',

-> avg(salary) as 'Average Salary'

-> from employee

-> group by department\_id;

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

| department\_id | Maximum Salary | Minimum Salary | Average Salary |

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

| 10 | 1250 | 800 | 1025.0000 |

| 20 | 2850 | 1600 | 2225.0000 |

| 30 | 2750 | 2750 | 2750.0000 |

| 40 | 2200 | 2200 | 2200.0000 |

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

4 rows in set (0.03 sec)

**23. List out the job wise maximum salary, minimum salary, average salaries of the employees.**

**24. List out the no.of employees joined in every month in ascending order.**

**25. List out the no.of employees for each month and year, in the ascending order based on the year, month.**

**26. List out the department id having atleast two employees.**

**27. How many employees in feb month.**

**28. How many employees who are joined in feb or may month.**

**29. How many employees who are joined in 1985.**

**30. How many employees joined each month in 1985.**

**31. How many employees who are joined in Feb 1985.**

**32. Which is the department id, having greater than or equal to 1 employees joined in feb 1985.**