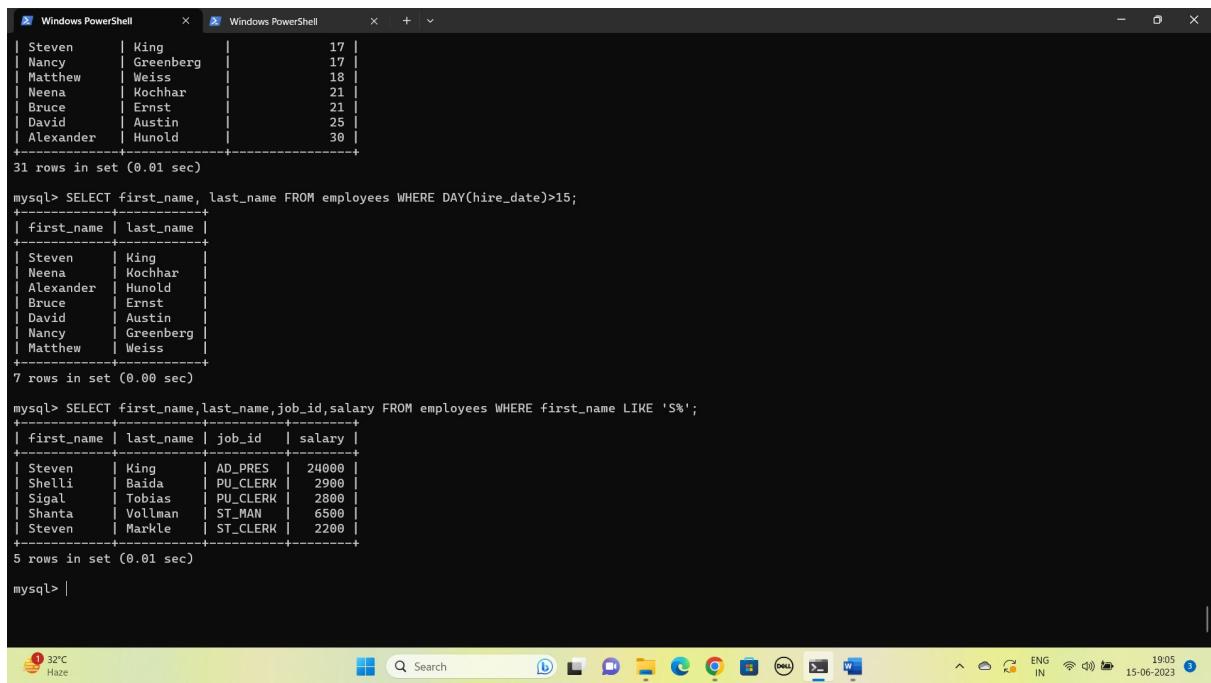


ASSIGNMENT 2

1. Select employees first name, last name, job_id and salary whose first name starts with alphabet S

```
SELECT first_name,last_name,job_id,salary FROM employees WHERE first_name LIKE 'S%';
```



The screenshot shows a Windows desktop environment. At the top, there are two PowerShell windows side-by-side. The left window displays a table of employee names and hire dates. The right window shows the results of three SQL queries related to employees starting with 'S'. Below the PowerShell windows is a taskbar with various icons, including a weather widget showing '32°C Haze' and a system status bar at the bottom right indicating the date as '15-06-2023'.

```
| Steven | King | 17 |
| Nancy | Greenberg | 17 |
| Matthew | Weiss | 18 |
| Neena | Kochhar | 21 |
| Bruce | Ernst | 21 |
| David | Austin | 25 |
| Alexander | Hunold | 30 |
+-----+
31 rows in set (0.01 sec)

mysql> SELECT first_name, last_name FROM employees WHERE DAY(hire_date)>15;
+-----+-----+
| first_name | last_name |
+-----+-----+
| Steven | King |
| Neena | Kochhar |
| Alexander | Hunold |
| Bruce | Ernst |
| David | Austin |
| Nancy | Greenberg |
| Matthew | Weiss |
+-----+
7 rows in set (0.00 sec)

mysql> SELECT first_name, last_name, job_id, salary FROM employees WHERE first_name LIKE 'S%';
+-----+-----+-----+-----+
| first_name | last_name | job_id | salary |
+-----+-----+-----+-----+
| Steven | King | AD_PRES | 24000 |
| Shelli | Baida | PU_CLERK | 2900 |
| Sigal | Tobias | PU_CLERK | 2800 |
| Shanta | Vollman | ST_MAN | 6500 |
| Steven | Markle | ST_CLERK | 2200 |
+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> |
```

2. Write a query to select employee with the highest salary (using inner query)

```
SELECT first_name,last_name,salary FROM employees WHERE salary IN(SELECT MAX(salary) FROM employees);
```

```

Windows PowerShell x Windows PowerShell x + v

mysql> SELECT first_name, last_name FROM employees WHERE DAY(hire_date)>15;
+-----+-----+
| first_name | last_name |
+-----+-----+
| Steven     | King      |
| Neena      | Kochhar   |
| Alexander  | Hunold    |
| Bruce      | Ernst     |
| David      | Austin    |
| Nancy      | Greenberg|
| Matthew    | Weiss    |
+-----+-----+
7 rows in set (0.00 sec)

mysql> SELECT first_name, last_name, job_id, salary FROM employees WHERE first_name LIKE 'S%';
+-----+-----+-----+-----+
| first_name | last_name | job_id | salary |
+-----+-----+-----+-----+
| Steven     | King      | AD_PRES | 24000 |
| Shelli     | Baida    | PU_CLERK | 2900  |
| Sigal      | Tobias   | PU_CLERK | 2800  |
| Shanta    | Vollman  | ST_MAN  | 6500  |
| Steven     | Markle   | ST_CLERK | 2200  |
+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> SELECT first_name, last_name, salary FROM employees WHERE salary IN(SELECT MAX(salary) FROM employees);
+-----+-----+-----+
| first_name | last_name | salary |
+-----+-----+-----+
| Steven     | King      | 24000 |
+-----+-----+-----+
1 row in set (0.01 sec)

mysql>

```

32°C Haze

Search ENG IN 15-06-2023 19:08

3. Select employee with the second highest salary

```
SELECT first_name, last_name, salary FROM employees WHERE salary IN(SELECT MAX(salary) FROM employees WHERE salary < (SELECT MAX(salary) FROM employees));
```

```

Windows PowerShell x Windows PowerShell x + v

| David     | Austin    | 4800 |
| Valli    | Pataballa | 4800 |
| Diana    | Lorentz   | 4200 |
| Nancy    | Greenberg | 12000 |
| Daniel   | Faviet    | 9000 |
| John     | Chen      | 8200 |
| Ismael   | Sciarra   | 7700 |
| Jose Manuel | Uzman    | 7800 |
| Luis     | Popp      | 6900 |
| Den      | Raphaelly | 11000 |
| Alexander | Khoo      | 3100 |
| Shelli   | Baida    | 2900 |
| Sigal    | Tobias   | 2800 |
| Guy      | Himuro   | 2600 |
| Karen    | Colmenares | 2500 |
| Matthew   | Weiss    | 8000 |
| Adam     | Fipp      | 8200 |
| Payam    | Kaufling  | 7900 |
| Shanta   | Vollman  | 6500 |
| Kevin    | Mourgos  | 5800 |
| Julia    | Nayer    | 3200 |
| Irene    | Mikkilineni | 2700 |
| James    | Landry   | 2400 |
| Steven   | Markle   | 2200 |
| Laura    | Bissot   | 3300 |
| Mozhe    | Atkinson | 2800 |
+-----+-----+-----+
31 rows in set (0.00 sec)

mysql> SELECT first_name, last_name, salary FROM employees WHERE salary IN(SELECT MAX(salary) FROM employees WHERE salary < (SELECT MAX(salary) FROM employees));
+-----+-----+-----+
| first_name | last_name | salary |
+-----+-----+-----+
| Neena     | Kochhar   | 17000 |
| Lex       | De Haan   | 17000 |
+-----+-----+-----+
2 rows in set (0.01 sec)

mysql>

```

Top Events Event Brief

Search ENG IN 22:21 15-06-2023

4. Write a query to select employees and their corresponding managers and their salaries (SELF Join)

```
SELECT CONCAT(a.first_name, ',', a.last_name) employee,
CONCAT(b.first_name, ',', b.last_name) manager, a.salary FROM employees
a LEFT JOIN employees b ON b.Employee_id=a.manager_id;
```

```
mysql> SELECT CONCAT(a.first_name, ',', a.last_name) employee, CONCAT(b.first_name, ',', b.last_name) manager, a.salary FROM employees a LEFT JOIN employees b ON b.Employee_id=a.manager_id;
+-----+-----+-----+
| employee | manager | salary |
+-----+-----+-----+
| Steven King | NULL | 24000 |
| Neena Kochhar | Steven King | 17000 |
| Lex De Haan | Steven King | 17000 |
| Alexander Hunold | Lex De Haan | 9000 |
| Bruce Ernst | Alexander Hunold | 6000 |
| David Austin | Alexander Hunold | 4800 |
| Valli Pataballa | Alexander Hunold | 4800 |
| Diana Lorentz | Alexander Hunold | 4200 |
| Nancy Greenberg | Neena Kochhar | 12000 |
| Daniel Faviet | Nancy Greenberg | 9000 |
| John Chen | Nancy Greenberg | 8200 |
| Ismael Sciarra | Nancy Greenberg | 7700 |
| Jose Manuel Urman | Nancy Greenberg | 7800 |
| Luis Popp | Nancy Greenberg | 6900 |
| Den Raphaely | Steven King | 11000 |
| Alexander Khoo | Den Raphaely | 3100 |
| Shelli Baida | Den Raphaely | 2900 |
| Sigal Tobias | Den Raphaely | 2800 |
| Guy Himuro | Den Raphaely | 2600 |
| Karen Colmenares | Den Raphaely | 2500 |
| Matthew Weiss | Steven King | 8000 |
| Adam Fripp | Steven King | 8200 |
| Payam Kaufling | Steven King | 7900 |
| Shanta Vollman | Steven King | 6500 |
| Kevin Murgos | Steven King | 5800 |
| Julia Nayer | Matthew Weiss | 3200 |
| Irene Mikkilineni | Matthew Weiss | 2700 |
| James Landry | Matthew Weiss | 2400 |
| Steven Markle | Matthew Weiss | 2200 |
| Laura Bissot | Adam Fripp | 3300 |
| Mozhe Atkinson | Adam Fripp | 2800 |
+-----+-----+-----+
31 rows in set (0.00 sec)
```

5. Create a view for the above query

```
CREATE VIEW manager_salary_of_employee AS SELECT
CONCAT(a.first_name, ',', a.last_name) employee, CONCAT(b.first_name,
',', b.last_name) manager, a.salary FROM employees a LEFT JOIN
employees b ON b.Employee_id=a.manager_id;
```

```
mysql> CREATE VIEW manager_salary_of_employee AS SELECT CONCAT(a.first_name, ',', a.last_name) employee, CONCAT(b.first_name, ',', b.last_name) manager, a.salary FROM employees a LEFT JOIN employees b ON b.Employee_id=a.manager_id;C
mysql> DROP VIEW 'C'
mysql> CREATE VIEW manager_salary_of_employee AS SELECT CONCAT(a.first_name, ',', a.last_name) employee, CONCAT(b.first_name, ',', b.last_name) manager, a.salary FROM employees a LEFT JOIN employees b ON b.Employee_id=a.manager_id;C
mysql> DROP VIEW manager_salary_of_employee;
Query OK, 0 rows affected (0.11 sec)

mysql> CREATE VIEW manager_salary_of_employee AS SELECT CONCAT(a.first_name, ',', a.last_name) employee, CONCAT(b.first_name, ',', b.last_name) manager, a.salary FROM employees a LEFT JOIN employees b ON b.Employee_id=a.manager_id;
Query OK, 0 rows affected (0.03 sec)

mysql> SHOW FULL TABLES WHERE Table_type='VIEW';
+-----+-----+
| Tables_in_employees | Table_type |
+-----+-----+
| manager_salary_of_employee | VIEW      |
+-----+-----+
1 row in set (0.07 sec)
```

6. Write a query to show count of employees under each manager in descending order (from view)

SELECT manager, COUNT(employee) `Count of Employees` FROM manager_salary_of_employee GROUP BY manager;

```
mysql> CREATE VIEW manager_salary_of_employee AS SELECT CONCAT(a.first_name, ' ', a.last_name) employee, CONCAT(b.first_name, ' ', b.last_name) manager, a.salary FROM employees a LEFT JOIN employees b ON b.Employee_id=a.manager_id;"C
mysql> DROP VIEW 'C
mysql> CREATE VIEW manager_salary_of_employee AS SELECT CONCAT(a.first_name, ' ', a.last_name) employee, CONCAT(b.first_name, ' ', b.last_name) manager, a.salary FROM employees a LEFT JOIN employees b ON b.Employee_id=a.manager_id;"C
mysql> DROP VIEW manager_salary_of_employee;
Query OK, 0 rows affected (0.11 sec)

mysql> CREATE VIEW manager_salary_of_employee AS SELECT CONCAT(a.first_name, ' ', a.last_name) employee, CONCAT(b.first_name, ' ', b.last_name) manager, a.salary FROM employees a LEFT JOIN employees b ON b.Employee_id=a.manager_id;
Query OK, 0 rows affected (0.03 sec)

mysql> SHOW FULL TABLES WHERE Table_type='VIEW';
+-----+-----+
| Tables_in_entri_assignment | Table_type |
+-----+-----+
| manager_salary_of_employee | VIEW      |
+-----+-----+
1 row in set (0.07 sec)

mysql> SELECT manager, COUNT(employee) `Count of Employees` FROM manager_salary_of_employee GROUP BY manager;
+-----+-----+
| manager | Count of Employees |
+-----+-----+
| NULL    | 1                |
| Steven King | 8               |
| Lex De Haan | 1               |
| Alexander Hunold | 4          |
| Neena Kochhar | 1               |
| Nancy Greenberg | 5          |
| Den Raphaely | 5               |
| Matthew Weiss | 4               |
| Adam Fripp | 2               |
+-----+-----+
9 rows in set (0.02 sec)

mysql> |
```

7. Find the count of employees in each department

SELECT Department_name AS Department, COUNT(Employee_id) AS `count of employees` FROM departments JOIN employees USING(department_id) GROUP BY Department;

```

Windows PowerShell x Windows PowerShell x Windows PowerShell x
+-----+
| Field      | Type        | Null | Key | Default | Extra |
+-----+
| Employee_id | smallint unsigned | NO   | PRI | NULL    |       |
| first_name  | varchar(15)     | NO   |      | NULL    |       |
| last_name   | varchar(15)     | NO   |      | NULL    |       |
| email       | varchar(40)     | YES  |      | NULL    |       |
| phone_number| varchar(20)     | NO   |      | NULL    |       |
| hire_date   | date          | NO   |      | NULL    |       |
| job_id      | varchar(30)    | NO   |      | NULL    |       |
| salary      | smallint unsigned | NO   |      | NULL    |       |
| commission_pct | varchar(10)    | YES  |      | NULL    |       |
| manager_id  | smallint unsigned | YES  |      | NULL    |       |
| department_id | smallint unsigned | NO   | MUL | NULL    |       |
+-----+
11 rows in set (0.00 sec)

mysql> SELECT Department_name AS Department, COUNT(Employee_id) AS `count of employees` FROM departments JOIN employees USING(department_id) GROUP BY Department;
+-----+
| Department | count of employees |
+-----+
| Marketing  | 2                 |
| Purchasing | 3                 |
| Human Resources | 3           |
| Shipping   | 7                 |
| IT         | 4                 |
| Public Relations | 1           |
| Sales      | 2                 |
| Executive  | 1                 |
| Finance    | 1                 |
| Accounting | 1                 |
| Corporate Tax | 1           |
| Control And Credit | 1           |
| Shareholder Services | 1           |
| Benefits   | 1                 |
| Payroll    | 2                 |
+-----+
15 rows in set (0.01 sec)

mysql> |
28°C Mostly cloudy

```

8. Get the count of employees hired year wise

```

SELECT COUNT(Employee_id) `count of employees`, YEAR(hire_date) year FROM
employees GROUP BY year;

```

```

Windows PowerShell x Windows PowerShell x Windows PowerShell x
+-----+
| 114 | Den      | Raphaelly | 1994-11-08 |
| 115 | Alexander | Khoo     | 1995-05-12 |
| 116 | Shelli   | Baida   | 1997-12-13 |
| 117 | Sigal    | Tobias  | 1997-09-10 |
| 118 | Guy      | Hinuro  | 1998-01-02 |
| 119 | Karen    | Colmenares | 1999-04-08 |
| 120 | Matthew  | Weiss   | 1996-07-18 |
| 121 | Adam     | Fripp   | 1997-08-09 |
| 122 | Payam    | Kaufling | 1995-05-01 |
| 123 | Shanta   | Vollman | 1997-10-12 |
| 124 | Kevin    | Mourgos | 1999-11-12 |
| 125 | Julia    | Nayer   | 1997-07-02 |
| 126 | Irene    | Milkilineni | 1998-11-12 |
| 127 | James    | Landry  | 1999-01-02 |
| 128 | Steven   | Markle  | 2000-03-04 |
| 129 | Laura    | Bissot  | 1997-09-10 |
| 130 | Mozhe    | Atkinson | 1997-10-12 |
+-----+
31 rows in set (0.00 sec)

mysql> SELECT COUNT(Employee_id) `count of employees`, YEAR(hire_date) year FROM employees GROUP BY year;
+-----+
| count of employees | year |
+-----+
| 1 | 1987 |
| 1 | 1989 |
| 1 | 1993 |
| 1 | 1998 |
| 1 | 1991 |
| 10 | 1997 |
| 4 | 1998 |
| 5 | 1999 |
| 3 | 1994 |
| 2 | 1995 |
| 1 | 1996 |
| 1 | 2000 |
+-----+
12 rows in set (0.01 sec)

mysql> |
28°C Mostly cloudy

```

9 . create a stored procedure to get the “ Get the count of employees hired in the input year”(IN year , OUT count)

DELIMITER !

```

CREATE PROCEDURE employees_count_by_year (
    IN year INT,
    OUT count INT)
BEGIN
    SELECT COUNT(employee_id) INTO count FROM employees WHERE
YEAR(hire_date)=year;
END !
DELIMITER ;
CALL employees_count_by_year('1997',@count);

```

```

Windows PowerShell      Windows PowerShell      Windows PowerShell
mysql> CREATE PROCEDURE employees_count_by_year (
-->     IN year INT,
-->     OUT count INT)
--> BEGIN
-->     SELECT COUNT(employee_id) INTO count FROM employees WHERE YEAR(hire_date)=year;
--> END !
Query OK, 0 rows affected (0.03 sec)

mysql> DELIMITER ;
mysql> CALL employees_count_by_year('1997',@count);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT @count;
+-----+
| @count |
+-----+
|    10 |
+-----+
1 row in set (0.00 sec)

mysql> CALL employees_count_by_year('2000',@count);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT @count;
+-----+
| @count |
+-----+
|     1 |
+-----+
1 row in set (0.00 sec)

mysql> CALL employees_count_by_year('1999',@count);
Query OK, 1 row affected (0.00 sec)

mysql> SELECT @count;
+-----+
| @count |
+-----+
|     5 |
+-----+
1 row in set (0.00 sec)

```

10. Select the employees whose first_name contains “an”

```
SELECT first_name, last_name FROM employees WHERE first_name LIKE '%an%';
```

```

mysql> CALL employees_count_by_year('2000',@count);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT @count;
+-----+
| @count |
+-----+
|      1 |
+-----+
1 row in set (0.00 sec)

mysql> CALL employees_count_by_year('1999',@count);
Query OK, 1 row affected (0.00 sec)

mysql> SELECT @count;
+-----+
| @count |
+-----+
|      5 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT first_name,last_name FROM employees WHERE first_name LIKE '%an%';
+-----+-----+
| first_name | last_name |
+-----+-----+
| Alexander | Hunold   |
| Diana     | Lorentz  |
| Nancy     | Greenberg|
| Daniel    | Faviet   |
| Jose Manuel | Urman   |
| Alexander | Kho   |
| Shanta    | Vollman |
+-----+-----+
7 rows in set (0.01 sec)

mysql>

```

28°C Mostly cloudy Search 01:08 14-06-2023

11. Select employee first name and the corresponding phone number in the format (___)-(___)-(___)

`SELECT GROUP_CONCAT(first_name,'-',phone_number SEPARATOR '-') FROM employees;`

```

mysql> SELECT GROUP_CONCAT(first_name,'-',phone_number SEPARATOR '-') FROM employees;
+-----+
| GROUP_CONCAT(first_name,'-',phone_number SEPARATOR '-') |
+-----+
| Steven-515.123.4567-Neena-515.123.4568-Lex-515.123.4569-Alexander-590.423.4567-Bruce-590.423.4568-David-590.423.4569-Valli-590.423.4560-Diana-590.423.5567-Nancy-515.124.4569-Daniel-515.124.4169-John-515.124.4269-Ismail-515.124.4369-Jose Manuel-515.124.4469-Luis-515.124.4567-Den-515.127.4561-Alexander-515.127.4562-Shell-515.127.4563-Sigal-515.127.4564-Guy-515.127.4565-Karen-515.127.4566-Matthew-650.123.1234-Adam-650.123.2234-Payam-650.123.3234-Shanta-650.123.4234-Kevin-650.123.5234-Julia-650.124.1214-Irene-650.124.1224-James-650.124.1334-Steven-650.124.1434-Laura-650.124.5234-Mozhe-650.124.6234 |
+-----+
1 row in set

mysql>

```

28°C Mostly cloudy Search 01:52 14-06-2023

12. Find the employees who joined in August, 1994.

`SELECT first_name, last_name FROM employees WHERE hire_date LIKE '1994-08-%';`

```

Windows PowerShell x Windows PowerShell x Windows PowerShell x + -
102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1993-09-12 | AD_VP | 17000 | NULL | 100 | 30 |
109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1994-08-12 | FI_ACCOUNT | 9000 | NULL | 108 | 170 |
108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1994-08-17 | FI_MGR | 12000 | NULL | 101 | 100 |
114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 1994-11-08 | PU_MAN | 11000 | NULL | 100 | 30 |
122 | Payam | Kauffling | PKAUFLIN | 650.123.3234 | 1995-05-01 | ST_MAN | 7900 | NULL | 108 | 40 |
115 | Alexander | Kho | AKHOO | 515.127.4562 | 1995-05-12 | PU_CLERK | 3100 | NULL | 114 | 80 |
120 | Matthew | Weiss | MWIESS | 650.123.1234 | 1996-07-18 | ST_MAN | 8000 | NULL | 100 | 50 |
111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1997-02-01 | FI_ACCOUNT | 7700 | NULL | 108 | 160 |
110 | John | Chen | JCHEN | 515.124.4269 | 1997-04-09 | FI_ACCOUNT | 8200 | NULL | 108 | 170 |
105 | David | Austin | DAUSTIN | 590.423.4569 | 1997-06-25 | IT_PROG | 4800 | NULL | 103 | 60 |
125 | Julia | Nayer | JNAYER | 650.124.1214 | 1997-07-02 | ST_CLERK | 3200 | NULL | 120 | 50 |
121 | Adam | Fripp | AFRIPP | 650.123.2234 | 1997-08-09 | ST_MAN | 8200 | NULL | 100 | 50 |
117 | Sigal | Tobias | STOBIAS | 515.127.4564 | 1997-09-10 | PU_CLERK | 2800 | NULL | 114 | 30 |
129 | Laura | Bissot | LBISSTO | 650.124.5234 | 1997-09-10 | ST_CLERK | 3300 | NULL | 121 | 50 |
123 | Shanta | Vollman | SVOLLMAN | 650.123.4234 | 1997-10-12 | ST_MAN | 6500 | NULL | 100 | 50 |
130 | Mozhe | Atkinson | MATKINSO | 650.124.6234 | 1997-10-12 | ST_CLERK | 2800 | NULL | 121 | 110 |
116 | Shelli | Baida | SBaida | 515.127.4563 | 1997-12-13 | PU_CLERK | 2900 | NULL | 114 | 70 |
118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1998-01-02 | PU_CLERK | 2600 | NULL | 114 | 60 |
106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1998-02-05 | IT_PROG | 4800 | NULL | 103 | 40 |
112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1998-06-03 | FI_ACCOUNT | 7800 | NULL | 108 | 150 |
126 | Irene | Mikkilineni | IMIKKILI | 650.124.1224 | 1998-11-12 | ST_CLERK | 2700 | NULL | 120 | 50 |
127 | James | Landry | JLANDRY | 650.124.1334 | 1999-01-02 | ST_CLERK | 2400 | NULL | 120 | 90 |
107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1999-02-09 | IT_PROG | 4200 | NULL | 103 | 40 |
119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 1999-04-08 | PU_CLERK | 2500 | NULL | 114 | 130 |
124 | Kevin | Mourgos | KMOURGOS | 650.123.5234 | 1999-11-12 | ST_MAN | 5800 | NULL | 100 | 80 |
113 | Luis | Popp | LPOPP | 515.124.4567 | 1999-12-07 | FI_ACCOUNT | 6900 | NULL | 108 | 140 |
128 | Steven | Markle | SMARLKE | 650.124.1434 | 2000-03-04 | ST_CLERK | 2200 | NULL | 120 | 50 |
31 rows in set (0.00 sec)

mysql> SELECT first_name, last_name FROM employees WHERE hire_date LIKE '1994-08-%';
+-----+-----+
| first_name | last_name |
+-----+-----+
| Nancy | Greenberg |
| Daniel | Faviet |
+-----+-----+
2 rows in set (0.00 sec)

mysql>

```

13. Find the maximum salary from each department.

```

SELECT Department_name Department ,MAX(salary) `Maximum Salary` FROM
departments d JOIN employees e ON d.Department_id=e.department_id GROUP BY
Department;

```

```

Windows PowerShell x Windows PowerShell x Windows PowerShell x + -
118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1998-01-02 | PU_CLERK | 2600 | NULL | 114 | 60 |
119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 1999-04-08 | PU_CLERK | 2500 | NULL | 114 | 130 |
120 | Matthew | Weiss | MWIESS | 650.123.1234 | 1996-07-18 | ST_MAN | 8000 | NULL | 100 | 50 |
121 | Adam | Fripp | AFRIPP | 650.123.2234 | 1997-08-09 | ST_MAN | 8200 | NULL | 100 | 50 |
122 | Payam | Kauffling | PKAUFLIN | 650.123.3234 | 1995-05-01 | ST_MAN | 7900 | NULL | 100 | 40 |
123 | Shanta | Vollman | SVOLLMAN | 650.123.4234 | 1997-10-12 | ST_MAN | 6500 | NULL | 100 | 50 |
124 | Kevin | Mourgos | KMOURGOS | 650.123.5234 | 1999-11-12 | ST_MAN | 5800 | NULL | 100 | 80 |
125 | Julia | Nayer | JNAYER | 650.124.1214 | 1997-07-02 | ST_CLERK | 3200 | NULL | 120 | 50 |
126 | Irene | Mikkilineni | IMIKKILI | 650.124.1224 | 1998-11-12 | ST_CLERK | 2700 | NULL | 120 | 50 |
127 | James | Landry | JLANDRY | 650.124.1334 | 1999-01-02 | ST_CLERK | 2400 | NULL | 120 | 90 |
128 | Steven | Markle | SMARLKE | 650.124.1434 | 2000-03-04 | ST_CLERK | 2200 | NULL | 120 | 50 |
129 | Laura | Bissot | LBISSTO | 650.124.5234 | 1997-09-10 | ST_CLERK | 3300 | NULL | 121 | 50 |
130 | Mozhe | Atkinson | MATKINSO | 650.124.6234 | 1997-10-12 | ST_CLERK | 2800 | NULL | 121 | 110 |
31 rows in set (0.00 sec)

mysql> SELECT Department_name Department ,MAX(salary) `Maximum Salary` FROM departments d JOIN employees e ON d.Department_id=e.department_id GROUP BY Department;
+-----+-----+
| Department | Maximum Salary |
+-----+-----+
| Marketing | 24000 |
| Purchasing | 17000 |
| IT | 9000 |
| Human Resources | 7900 |
| Finance | 12000 |
| Payroll | 9000 |
| Benefits | 7700 |
| Shareholder Services | 7800 |
| Control And Credit | 6900 |
| Sales | 5800 |
| Public Relations | 2900 |
| Corporate Tax | 2500 |
| Shipping | 8200 |
| Executive | 2400 |
| Accounting | 2800 |
+-----+-----+
15 rows in set (0.00 sec)

mysql> |

```

14. Write a SQL query to display the 5 least earning employees

```

SELECT first_name, last_name FROM employees ORDER BY salary LIMIT 5;

```

```

Windows PowerShell x Windows PowerShell x Windows PowerShell x + -
| Julia      | Nayer        | 3200 |
| Laura     | Bissot       | 3300 |
| Diana     | Lorentz      | 4200 |
| David     | Austin       | 4800 |
| Valli     | Pataballa    | 4800 |
| Kevin     | Mourgos     | 5800 |
| Bruce     | Ernst        | 6000 |
| Shanta    | Vollman     | 6500 |
| Luis      | Popp         | 6900 |
| Ismael    | Sciarra      | 7700 |
| Jose Manuel | Urman       | 7800 |
| Payam     | Kaufling     | 7900 |
| Matthew   | Weiss        | 8000 |
| John      | Chen          | 8200 |
| Adam      | Fypp          | 8200 |
| Alexander | Hunold       | 9000 |
| Daniel    | Faviet       | 9000 |
| Den       | Raphaelly    | 11800 |
| Nancy     | Greenberg    | 12000 |
| Neena     | Kochhar      | 17600 |
| Lex       | De Haan       | 17600 |
| Steven    | King          | 24000 |
+-----+
31 rows in set (0.00 sec)

mysql> SELECT first_name, last_name FROM employees ORDER BY salary LIMIT 5;
+-----+-----+
| first_name | last_name |
+-----+-----+
| Steven     | Markle      |
| James      | Landry      |
| Karen      | Colmenares |
| Guy        | Hiru        |
| Irene      | Mikkilineni |
+-----+-----+
5 rows in set (0.01 sec)

mysql>

```

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15. Find the employees hired in the 80s

`SELECT first_name, last_name FROM employees WHERE hire_date LIKE '198_-%-%';`

```

Windows PowerShell x Windows PowerShell x Windows PowerShell x + -
| 112 | Jose Manuel | Urman      | JMURMAN | 515.124.4469 | 1998-06-03 | FI_ACCOUNT | 7800 | NULL
| 108 | Irene        | Mikkilineni | IMIKKILI | 650.124.1224 | 1998-11-12 | ST_CLERK  | 2700 | NULL
| 126 | James        | Landry      | JLANDRY  | 650.124.1334 | 1999-01-02 | ST_CLERK  | 2400 | NULL
| 120 | Karen        | Colmenares | KCOLMENA | 515.127.4566 | 1999-04-08 | PU_CLERK  | 2500 | NULL
| 127 | James        | Landry      | JLANDRY  | 650.124.1334 | 1999-01-02 | ST_CLERK  | 2400 | NULL
| 120 | 90           |             |          |               |             | IT_PROG   | 4200 | NULL
| 107 | Diana        | Lorentz     | DLORENTZ | 590.423.5567 | 1999-02-09 | IT_PROG   | 4200 | NULL
| 103 | 40           |             |          |               |             | PU_CLERK  | 2500 | NULL
| 119 | Karen        | Colmenares | KCOLMENA | 515.127.4566 | 1999-04-08 | PU_CLERK  | 2500 | NULL
| 114 | 130          |             |          |               |             | ST_MAN    | 5800 | NULL
| 124 | Kevin        | Mourgos    | KMOURGOS | 650.123.5234 | 1999-11-12 | ST_MAN    | 5800 | NULL
| 100 | 80           |             |          |               |             |             | 6900 | NULL
| 113 | Luis          | Popp        | LPOPP     | 515.124.4567 | 1999-12-07 | FI_ACCOUNT | 6900 | NULL
| 108 | 140          |             |          |               |             |             | 2200 | NULL
| 128 | Steven        | Markle      | SMARKLE  | 650.124.1434 | 2000-03-04 | ST_CLERK  | 2200 | NULL
| 120 | 50           |             |          |               |             |             | 2200 | NULL
+-----+
31 rows in set (0.00 sec)

mysql> SELECT first_name, last_name FROM employees WHERE hire_date LIKE '198_--%';
+-----+-----+
| first_name | last_name |
+-----+-----+
| Steven     | King        |
| Neena     | Kochhar    |
+-----+-----+
2 rows in set (0.00 sec)

mysql>

```

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16. Find the employees who joined the company after 15th of the month

`SELECT first_name, last_name FROM employees WHERE DAY(hire_date)>15;`

```
Windows PowerShell x Windows PowerShell x Windows PowerShell x + v
+-----+
| 127 | James      | Landry     | JLANDRY | 650.124.1334 | 1999-01-02 | ST_CLERK   | 2400 | NULL
| 128 |          98 |           |
| 107 | Diana      | Lorentz    | DLORENTZ | 590.423.5567 | 1999-02-09 | IT_PROG    | 4200 | NULL
| 119 | Karen      | Colmenares | KCOLMENA | 515.127.4566 | 1999-04-08 | PU_CLERK   | 2500 | NULL
| 114 |          130 |           |
| 124 | Kevin      | Mourgos   | KMOURGOS | 650.123.5234 | 1999-11-12 | ST_MAN    | 5800 | NULL
| 100 |          88 |           |
| 113 | Luis       | Popp       | LPOPP    | 515.124.4567 | 1999-12-07 | FI_ACCOUNT | 6900 | NULL
| 108 |          140 |           |
| 128 | Steven     | Markle    | SMARKLE  | 650.124.1434 | 2000-03-04 | ST_CLERK   | 2200 | NULL
| 120 |          50 |           |
+-----+
31 rows in set (0.00 sec)

mysql> SELECT first_name, last_name FROM employees WHERE DAY(hire_date)>15;
+-----+-----+
| first_name | last_name |
+-----+-----+
| Steven     | King      |
| Neena      | Kochhar   |
| Alexander  | Hunold    |
| Bruce      | Ernst     |
| David      | Austin    |
| Nancy      | Greenberg |
| Matthew    | Weiss    |
+-----+-----+
7 rows in set (0.00 sec)

mysql>
```

