Exercise 3


```
mysql>
mysql>
mysql> select * from S order by City DESC;
+------+-----------+--------+--------+
| S#   | Sname     | Status | City   |
+------+-----------+--------+--------+
| S2   | Pallavi   |     30 | Pune   |
| S1   | Vaishnavi |     20 | Nanded |
| S3   | Malhari   |     10 | Mumbai |
+------+-----------+--------+--------+
3 rows in set (0.00 sec)

mysql> select * from P order by City ASC, Pname ASC;
+------+--------+-------+--------+--------+
| P#   | Pname  | Color | Weight | City   |
+------+--------+-------+--------+--------+
| P1   | Pen    | Blue  |    5.2 | Nanded |
| P3   | Book   | Pink  |   12.3 | Nashik |
| P2   | Pensil | Black |    8.1 | Pune   |
+------+--------+-------+--------+--------+
3 rows in set (0.00 sec)

mysql> select * from S where Status between 10 and 20;
+------+-----------+--------+--------+
| S#   | Sname     | Status | City   |
+------+-----------+--------+--------+
| S1   | Vaishnavi |     20 | Nanded |
| S3   | Malhari   |     10 | Mumbai |
+------+-----------+--------+--------+
2 rows in set (0.00 sec)

mysql> select Pname, Weight from P where Weight < 10 or Weight > 15;
+--------+--------+
| Pname  | Weight |
+--------+--------+
| Pen    |    5.2 |
| Pensil |    8.1 |
+--------+--------+
2 rows in set (0.00 sec)

mysql> select Pname from P where Pname LIKE 'S%';
Empty set (0.00 sec)
```

```
| S#   | Sname     | Status | City   |
+------+-----------+--------+--------+
| S1   | Vaishnavi |     20 | Nanded |
| S3   | Malhari   |     10 | Mumbai |
+------+-----------+--------+--------+
2 rows in set (0.00 sec)

mysql> select Pname, Weight from P where Weight < 10 or Weight > 15;
+--------+--------+
| Pname  | Weight |
+--------+--------+
| Pen    |    5.2 |
| Pensil |    8.1 |
+--------+--------+
2 rows in set (0.00 sec)

mysql> select Pname from P where Pname LIKE 'S%';
Empty set (0.00 sec)

mysql> select * from S where City LIKE 'L%';
Empty set (0.00 sec)

mysql> selects * from J where Jname LIKE '__n%';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use
 near 'selects * from J where Jname LIKE '__n%'' at line 1
mysql> SELECT *
    -> FROM J
    -> WHERE Jname LIKE '__n%';
Empty set (0.00 sec)

mysql> select Jname from J;
+-------+
| Jname |
+-------+
| Alpha |
| Beta  |
| Gamma |
+-------+
3 rows in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Cli          ×    +    ∨                                                         —    □    ×

Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.41 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| exercise           |
| information_schema |
| mydatabase         |
| mysql              |
| performance_schema |
| practice1          |
| sys                |
+--------------------+
7 rows in set (0.03 sec)

mysql> use exercise;
Database changed
mysql> show tables;
+--------------------+
| Tables_in_exercise |
+--------------------+
| j                  |
| p                  |
| s                  |
| sdept              |
| semp               |
| spj                |
+--------------------+
6 rows in set (0.01 sec)

mysql> select * from j, p, s, sdept, semp, spj;
```

```
MySQL 8.0 Command Line Cli          ×    +    ∨                                                         —    □    ×

mysql> select * from j;
+------+-------+--------+
| J#   | Jname | City   |
+------+-------+--------+
| J1   | Alpha | Mumbai |
| J2   | Beta  | Nagpur |
| J3   | Gamma | Pune   |
+------+-------+--------+
3 rows in set (0.00 sec)

mysql> select * from p;
+------+--------+-------+--------+--------+
| P#   | Pname  | Color | Weight | City   |
+------+--------+-------+--------+--------+
| P1   | Pen    | Blue  |    5.2 | Nanded |
| P2   | Pensil | Black |    8.1 | Pune   |
| P3   | Book   | Pink  |   12.3 | Nashik |
+------+--------+-------+--------+--------+
3 rows in set (0.00 sec)

mysql> select * from s;
+------+-----------+--------+--------+
| S#   | Sname     | Status | City   |
+------+-----------+--------+--------+
| S1   | Vaishnavi |     20 | Nanded |
| S2   | Pallavi   |     30 | Pune   |
| S3   | Malhari   |     10 | Mumbai |
+------+-----------+--------+--------+
3 rows in set (0.00 sec)

mysql> select * from spj;
+------+------+------+------+
| S#   | P#   | J#   | Qty  |
+------+------+------+------+
| S1   | P1   | J1   | 300  |
| S1   | P2   | J2   | 200  |
| S2   | P1   | J1   | 100  |
| S3   | P3   | J3   | 150  |
+------+------+------+------+
4 rows in set (0.00 sec)

mysql> select * from semp;
+--------+----------+--------+----------+-----------+
```

```
| S3   | P3   | J3   | 150  |
+------+------+------+------+
4 rows in set (0.00 sec)

mysql> select * from semp;
+-------+---------+-------+--------+----------+
| EMPNO | EMPNAME | BASIC | DEPTNO | DEPTHEAD |
+-------+---------+-------+--------+----------+
| 1     | SUNIL   | 6000  | 10     | NULL     |
| 2     | HIREN   | 8000  | 20     | NULL     |
| 3     | ALI     | 4000  | 10     | 1        |
| 4     | GEORGE  | 6000  | 2      | NULL     |
+-------+---------+-------+--------+----------+
4 rows in set (0.00 sec)

mysql> select * from sdept;
+--------+-------------+
| DEPTNO | DEPTNAME    |
+--------+-------------+
| 10     | Development |
| 20     | Training    |
+--------+-------------+
2 rows in set (0.00 sec)

mysql> select Sname from s where binary left (Sname, 1) = upper(left(Sname,1));
+-----------+
| Sname     |
+-----------+
| Vaishnavi |
| Pallavi   |
| Malhari   |
+-----------+
3 rows in set, 1 warning (0.00 sec)

mysql> select upper(Sname) as SupplierNameUpper from S;
+-------------------+
| SupplierNameUpper |
+-------------------+
| VAISHNAVI         |
| PALLAVI           |
| MALHARI           |
+-------------------+
3 rows in set (0.00 sec)
```

```
3 rows in set (0.00 sec)

mysql> select lower(Sname) as suppliernamelower from S;
+-------------------+
| suppliernamelower |
+-------------------+
| vaishnavi         |
| pallavi           |
| malhari           |
+-------------------+
3 rows in set (0.00 sec)

mysql> select lpad (Sname, 25, ' ') as paddedsuppliername from S;
+---------------------------+
| paddedsuppliername        |
+---------------------------+
|                 Vaishnavi |
|                   Pallavi |
|                   Malhari |
+---------------------------+
3 rows in set (0.00 sec)

mysql> select replace(Sname, 'la', 'ro') as modifiedsuppliername from S;
+----------------------+
| modifiedsuppliername |
+----------------------+
| Vaishnavi            |
| Palrovi              |
| Malhari              |
+----------------------+
3 rows in set (0.00 sec)

mysql> select replace(replace(Sname, 'l','r'),'a','o') as modifiedsuppliername from S;
+----------------------+
| modifiedsuppliername |
+----------------------+
| Voishnovi            |
| Porrovi              |
| Morhori              |
+----------------------+
3 rows in set (0.00 sec)

mysql> select Sname, length(Sname) as namelength from S;
```

```
+----------------------+
3 rows in set (0.00 sec)

mysql> select Sname, length(Sname) as namelength from S;
+-----------+------------+
| Sname     | namelength |
+-----------+------------+
| Vaishnavi |          9 |
| Pallavi   |          7 |
| Malhari   |          7 |
+-----------+------------+
3 rows in set (0.00 sec)

mysql> select * from S where soundex(Sname) = soundex('BLOKE');
Empty set (0.00 sec)

mysql> select Sname,
    -> case
    -> when status = 10 then 'TEN'
    -> when status = 20 then 'Twenty'
    -> when status = 30 then 'Thirty'
    -> when status = 30 then 'FOURTY'
    -> when status = 30 then 'FIFTY'
    -> else 'Other'
    -> end as statusText
    -> from S;
+-----------+------------+
| Sname     | statusText |
+-----------+------------+
| Vaishnavi | Twenty     |
| Pallavi   | Thirty     |
| Malhari   | TEN        |
+-----------+------------+
3 rows in set (0.00 sec)

mysql> SELECT Sname,
    ->        CASE
    ->            WHEN Status = 10 THEN 'TEN'
    ->            WHEN Status = 20 THEN 'Twenty'
    ->            WHEN Status = 30 THEN 'Thirty'
    ->            WHEN Status = 40 THEN 'Forty'
    ->            WHEN Status = 50 THEN 'Fifty'
    ->            ELSE 'Other'
```

```
3 rows in set (0.00 sec)

mysql> SELECT Sname,
    ->        CASE
    ->            WHEN Status = 10 THEN 'TEN'
    ->            WHEN Status = 20 THEN 'Twenty'
    ->            WHEN Status = 30 THEN 'Thirty'
    ->            WHEN Status = 40 THEN 'Forty'
    ->            WHEN Status = 50 THEN 'Fifty'
    ->            ELSE 'Other'
    ->        END AS statusText
    -> FROM S;
+-----------+------------+
| Sname     | statusText |
+-----------+------------+
| Vaishnavi | Twenty     |
| Pallavi   | Thirty     |
| Malhari   | TEN        |
+-----------+------------+
3 rows in set (0.00 sec)

mysql> SELECT Sname, Status FROM S;
+-----------+--------+
| Sname     | Status |
+-----------+--------+
| Vaishnavi |     20 |
| Pallavi   |     30 |
| Malhari   |     10 |
+-----------+--------+
3 rows in set (0.00 sec)

mysql> select dayname(curdate()) as currentDay;
+------------+
| currentDay |
+------------+
| Monday     |
+------------+
1 row in set (0.00 sec)

mysql> select curdate() as  currentdate;
+-------------+
| currentdate |
+-------------+
```