S5 Semester
Application Software Development Lab (ASDL)

Github : [ceccs18c59/cs331:Application Software Development Lab (github.com)](github.com)

Experiment 8

Implementation of various aggregate functions in SQL.

SQL Query

```
USE cs333;

CREATE TABLE store (
    order_no INT PRIMARY KEY NOT NULL,
    code VARCHAR(5),
    item VARCHAR(20) NOT NULL,
    quantity INT,
    price FLOAT NOT NULL,
    discount FLOAT,
    mrp FLOAT
);

INSERT INTO store VALUES(1,'c1','Cup', 4, 29, 6, 35),
(2,'c2','Milk', 5, 45, 5, 50),
(3,'c3','Soap', 10, 36, 4, 40),
(4,'c4','Salt', 15, 12, 3, 15);

SELECT * FROM store;

SELECT (MOD(price, 9)) AS remainder
FROM store;

SELECT price, POWER(price, 2) As squaredPrice
FROM store;

SELECT ROUND(mrp DIV 7) AS roundedValue FROM store;
```

Result

```
Windows PowerShell                                                    —  □  ×

mysql> use cs333;
Database changed
mysql>
mysql> CREATE TABLE store (
    →  order_no INT PRIMARY KEY NOT NULL,
    →     code VARCHAR(5),
    →     item VARCHAR(20) NOT NULL,
    →     quantity INT,
    →     price FLOAT NOT NULL,
    →     discount FLOAT,
    →     mrp FLOAT
    →  );
Query OK, 0 rows affected (0.05 sec)

mysql> INSERT INTO store VALUES(1,'c1','Cup', 4, 29, 6, 35),
    →  (2,'c2','Milk', 5, 45, 5, 50),
    →  (3,'c3','Soap', 10, 36, 4, 40),
    →  (4,'c4','Salt', 15, 12, 3, 15);
Query OK, 4 rows affected (0.05 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM store;
+----------+------+------+----------+-------+----------+------+
| order_no | code | item | quantity | price | discount | mrp  |
+----------+------+------+----------+-------+----------+------+
|        1 | c1   | Cup  |        4 |    29 |        6 |   35 |
|        2 | c2   | Milk |        5 |    45 |        5 |   50 |
|        3 | c3   | Soap |       10 |    36 |        4 |   40 |
|        4 | c4   | Salt |       15 |    12 |        3 |   15 |
+----------+------+------+----------+-------+----------+------+
```

```
Windows PowerShell                                                    —  □  ×

mysql> SELECT (MOD(price, 9)) AS remainder
    →  FROM store;
+-----------+
| remainder |
+-----------+
|         2 |
|         0 |
|         0 |
|         3 |
+-----------+
4 rows in set (0.00 sec)

mysql> SELECT price, POWER(price, 2) As squaredPrice
    →  FROM store;
+-------+--------------+
| price | squaredPrice |
+-------+--------------+
|    29 |          841 |
|    45 |         2025 |
|    36 |         1296 |
|    12 |          144 |
+-------+--------------+
4 rows in set (0.00 sec)

mysql> SELECT ROUND(mrp DIV 7) AS roundedValue FROM store;
+--------------+
| roundedValue |
+--------------+
|            5 |
|            7 |
|            5 |
|            2 |
+--------------+
4 rows in set (0.00 sec)
```