

Application Software Development Lab (ASDL)

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

Experiment 7

Implementation of Build in functions in RDBMS

SQL Query

```
USE cs333;
```

```
-- a. Create a table store. Fields are order no, code, item, quantity, price, discount, mrp
```

```
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  
);
```

```
-- b. Insert values into the table
```

```
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);
```

```
-- c. Display the table
```

```
SELECT * FROM store;
```

```
-- d. Write an SQL query to display the reminder, if the amount of each item  
in store is divided by 9.
```

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

```
-- e. Write SQL query to display the amount in store and its square
```

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

```
-- f. Write SQL query to divide the amount in stock of each item by 7 in store
```

table and display the result round to the nearest integer.
SELECT ROUND(mrp DIV 7) AS roundedValue FROM store;

Result

```
Windows PowerShell x Windows PowerShell x + v
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> USE cs333;
Database changed
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 (0.04 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 (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql>
```

```
Windows PowerShell x Windows PowerShell x + v
  → (3,'c3','Soap', 10, 36, 4, 40),
  → (4,'c4','Salt', 15, 12, 3, 15);
Query OK, 4 rows affected (0.01 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 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

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

```
Windows PowerShell
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)

mysql>
```