Numeric Functions:

MySQL single row numeric functions. Numeric

functions take one numeric parameter and return one value.

Function	Description
ABS	Returns the absolute value of a number Syntax: ABS (numeric value)
ROUND	Rounds a value to a specified precision (number of digits) Syntax: ROUND(numeric value, p) where p = precision
TRUNCATE	Truncates a value to a specified precision (number of digits) Syntax: TRUNC (numeric value, p) where p = precision
MOD	Returns the remainder of division. Syntax MOD(m.n) where m is divided by n.

Task:

displays the individual LINE_PRICE from the sales line table,

rounded to one and zero places and truncated where the quantity of tickets purchased on

that line is greater than 2.

SELECT LINE_PRICE, ROUND(LINE_PRICE,1) AS “LINE_PRICE1”, ROUND(LINE_PRICE,0) AS “LINE_PRICE1”, TRUNCATE(LINE_PRICE,0) AS “TRUNCATED VALUE” FROM SALES_LINE WHERE LINE_QTY > 2;

```
mysql> SELECT LINE_PRICE, ROUND(LINE_PRICE,1) AS "LINE_PRICE1",
    -> ROUND(LINE_PRICE,0) AS "LINE_PRICE1",
    -> TRUNCATE(LINE_PRICE,0) AS "TRUNCATED VALUE"
    -> FROM SALES_LINE
    -> WHERE LINE_QTY > 2;
+------------+-------------+-------------+-----------------+
| LINE_PRICE | LINE_PRICE1 | LINE_PRICE1 | TRUNCATED VALUE |
+------------+-------------+-------------+-----------------+
|     139.96 |       140.0 |         140 |             139 |
|     168.40 |       168.4 |         168 |             168 |
|     168.40 |       168.4 |         168 |             168 |
|     114.68 |       114.7 |         115 |             114 |
+------------+-------------+-------------+-----------------+
4 rows in set (0.05 sec)
```

Task:

In this query, we take mode of line_price with 10, where line_price s divided by 10.

It will return the **remainder** of LINE_PRICE.

SELECT TRANSACTION_NO, LINE_PRICE, MOD(LINE_PRICE, 10) FROM SALES_LINE WHERE LINE_QTY > 2;

```
mysql> SELECT TRANSACTION_NO, LINE_PRICE, MOD(LINE_PRICE, 10)
    -> FROM SALES_LINE
    -> WHERE LINE_QTY > 2;
+----------------+------------+---------------------+
| TRANSACTION_NO | LINE_PRICE | MOD(LINE_PRICE, 10) |
+----------------+------------+---------------------+
|          12785 |     139.96 |                9.96 |
|          34534 |     168.40 |                8.40 |
|          34540 |     168.40 |                8.40 |
|          67592 |     114.68 |                4.68 |
+----------------+------------+---------------------+
4 rows in set (0.02 sec)
```