INFORMATION_SCHEMA.PARTITIONS table once again, we can see that both rows were inserted into partition po:

By repeating the last example using PARTITION BY KEY in place of PARTITION BY HASH in the definition of the table, you can verify that NULL is also treated like 0 for this type of partitioning.

24.3 Partition Management

There are a number of ways using SQL statements to modify partitioned tables; it is possible to add, drop, redefine, merge, or split existing partitions using the partitioning extensions to the ALTER TABLE statement. There are also ways to obtain information about partitioned tables and partitions. We discuss these topics in the sections that follow.

- For information about partition management in tables partitioned by RANGE or LIST, see Section 24.3.1, "Management of RANGE and LIST Partitions".
- For a discussion of managing HASH and KEY partitions, see Section 24.3.2, "Management of HASH and KEY Partitions".
- See Section 24.3.5, "Obtaining Information About Partitions", for a discussion of mechanisms provided in MySQL 8.0 for obtaining information about partitioned tables and partitions.
- For a discussion of performing maintenance operations on partitions, see Section 24.3.4, "Maintenance of Partitions".



Note

All partitions of a partitioned table must have the same number of subpartitions; it is not possible to change the subpartitioning once the table has been created.

To change a table's partitioning scheme, it is necessary only to use the ALTER TABLE statement with a <code>partition_options</code> option, which has the same syntax as that as used with <code>CREATE TABLE</code> for creating a partitioned table; this option (also) always begins with the keywords <code>PARTITION BY</code>. Suppose that the following <code>CREATE TABLE</code> statement was used to create a table that is partitioned by range:

```
CREATE TABLE trb3 (id INT, name VARCHAR(50), purchased DATE)

PARTITION BY RANGE( YEAR(purchased) ) (

PARTITION p0 VALUES LESS THAN (1990),

PARTITION p1 VALUES LESS THAN (1995),

PARTITION p2 VALUES LESS THAN (2000),

PARTITION p3 VALUES LESS THAN (2005)
);
```

To repartition this table so that it is partitioned by key into two partitions using the id column value as the basis for the key, you can use this statement:

```
ALTER TABLE trb3 PARTITION BY KEY(id) PARTITIONS 2;
```

This has the same effect on the structure of the table as dropping the table and re-creating it using CREATE TABLE trb3 PARTITION BY KEY(id) PARTITIONS 2;.