DB) 201624459 김태경 HW06

1. create table 구문

```
--------+
| sp     | CREATE TABLE `sp` (
  `sno` char(4) NOT NULL,
  `pno` char(4) NOT NULL,
  `qty` int NOT NULL,
  `date` date NOT NULL,
  PRIMARY KEY (`sno`,`pno`,`date`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
/*!50100 PARTITION BY RANGE (year(`date`))
(PARTITION p1980 VALUES LESS THAN (1980) ENGINE = InnoDB,
 PARTITION p1990 VALUES LESS THAN (1990) ENGINE = InnoDB,
 PARTITION p2000 VALUES LESS THAN (2000) ENGINE = InnoDB,
 PARTITION NOW VALUES LESS THAN MAXVALUE ENGINE = InnoDB) */ |
```

2. terminal 1 : read uncommitted 설정 캡쳐

```
[mysql> show variables where variable_name='tx_isolation';
Empty set (0.01 sec)

[mysql> set session transaction isolation level read uncommitted;
Query OK, 0 rows affected (0.01 sec)

[mysql> start transaction;
Query OK, 0 rows affected (0.00 sec)

[mysql> select * from sp;
+-----+-----+-----+------------+
| sno | pno | qty | date       |
+-----+-----+-----+------------+
| s2  | p2  |  10 | 1972-01-23 |
| s2  | p1  |  15 | 1988-10-11 |
| s1  | p2  |  20 | 1999-11-19 |
| s1  | p1  |  10 | 2020-02-20 |
| s3  | p1  |  25 | 2009-11-01 |
| s3  | p2  |  30 | 2011-04-03 |
+-----+-----+-----+------------+
6 rows in set (0.00 sec)

mysql>
```

3. terminal 2 : serializable 설정 캡쳐

```
[mysql> set session transaction isolation level serializable;
Query OK, 0 rows affected (0.00 sec)

[mysql> select * from sp;
+-----+-----+-----+------------+
| sno | pno | qty | date       |
+-----+-----+-----+------------+
| s2  | p2  |  10 | 1972-01-23 |
| s2  | p1  |  15 | 1988-10-11 |
| s1  | p2  |  20 | 1999-11-19 |
| s1  | p1  |  10 | 2020-02-20 |
| s3  | p1  |  25 | 2009-11-01 |
| s3  | p2  |  30 | 2011-04-03 |
+-----+-----+-----+------------+
6 rows in set (0.00 sec)

mysql>
```

4. 3.1~3.2부분 캡쳐 : 1~6번 순서대로 진행하였습니다.

```
mysql> select table_name, partition_name, partition_method, partition_description, table_rows from information_schema.partitions where table_name = 'sp';
+------------+----------------+------------------+-----------------------+------------+
| TABLE_NAME | PARTITION_NAME | PARTITION_METHOD | PARTITION_DESCRIPTION | TABLE_ROWS |
+------------+----------------+------------------+-----------------------+------------+
| sp         | NULL           | NULL             | NULL                  |         20 |
| sp         | after          | RANGE            | MAXVALUE              |          1 |
| sp         | p1980          | RANGE            | 1980                  |          1 |
| sp         | p1990          | RANGE            | 1990                  |          1 |
| sp         | p2000          | RANGE            | 2000                  |          1 |
| sp         | p2010          | RANGE            | 2010                  |          0 |
| sp         | p2020          | RANGE            | 2020                  |          1 |
| sp         | NULL           | NULL             | NULL                  |          0 |
+------------+----------------+------------------+-----------------------+------------+
8 rows in set (0.00 sec)
```
3.1

```
mysql> select * from sp;
+------+------+------+------------+
| sno  | pno  | qty  | date       |
+------+------+------+------------+
| s2   | p2   | 10   | 1972-01-23 |
| s2   | p1   | 15   | 1988-10-11 |
| s1   | p2   | 20   | 1999-11-19 |
| s3   | p1   | 25   | 2009-11-01 |
| s3   | p2   | 30   | 2011-04-03 |
| s1   | p1   | 10   | 2020-02-20 |
+------+------+------+------------+
6 rows in set (0.01 sec)
```
terminal2 insert 전 ①

```
mysql> select * from sp;
+------+------+------+------------+
| sno  | pno  | qty  | date       |
+------+------+------+------------+
| s2   | p2   | 10   | 1972-01-23 |
| s2   | p1   | 15   | 1988-10-11 |
| s1   | p2   | 20   | 1999-11-19 |
| s3   | p1   | 25   | 2009-11-01 |
| s3   | p2   | 30   | 2011-04-03 |
| s1   | p1   | 10   | 2020-02-20 |
| s4   | p1   | 10   | 2022-02-04 |
+------+------+------+------------+
7 rows in set (0.00 sec)
```
terminal 2 insert 후 ③

```
mysql> alter table sp drop partition after;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>
```
파티션 삭제 ⑤

```
mysql> insert into sp values("s4", "p1", "10", "2022-02-04");
Query OK, 1 row affected (0.01 sec)
```
terminal 2 insert 실행 ②

```
mysql> select * from sp;
+------+------+------+------------+
| sno  | pno  | qty  | date       |
+------+------+------+------------+
| s2   | p2   | 10   | 1972-01-23 |
| s2   | p1   | 15   | 1988-10-11 |
| s1   | p2   | 20   | 1999-11-19 |
| s3   | p1   | 25   | 2009-11-01 |
| s3   | p2   | 30   | 2011-04-03 |
| s1   | p1   | 10   | 2020-02-20 |
| s4   | p1   | 10   | 2022-02-04 |
+------+------+------+------------+
7 rows in set (0.01 sec)
```
terminal 1 파티션 삭제 전 ④

```
mysql> mysql> select * from sp;
+------+------+------+------------+
| sno  | pno  | qty  | date       |
+------+------+------+------------+
| s2   | p2   | 10   | 1972-01-23 |
| s2   | p1   | 15   | 1988-10-11 |
| s1   | p2   | 20   | 1999-11-19 |
| s3   | p1   | 25   | 2009-11-01 |
| s3   | p2   | 30   | 2011-04-03 |
+------+------+------+------------+
5 rows in set (0.00 sec)

mysql>
```
terminal 1 파티션 삭제 후 ⑥