S04-L02 How to work with partitions?

```
SELECT /* Select a list of all partitions from a table */
    `table_name`,
    `partition_ordinal_position`,
    `table_rows`,
    `partition_method`,
    `partitions`.*
FROM information_schema.partitions
WHERE 1=1
    AND `table_schema` = 'sample_staff'
    AND `table_name` = 'invoice'
;
```

Query to create the invoice table with partitions:

```
CREATE TABLE `invoice` (
  `id` int(11) unsigned NOT NULL AUTO_INCREMENT,
  `employee_id` int(11) unsigned NOT NULL DEFAULT '0',
```

```
`invoiced date` date NOT NULL,
  `paid_flag` tinyint(4) NOT NULL DEFAULT '0',
  `insert dt` datetime NOT NULL,
  `insert user id` int(11) NOT NULL DEFAULT '-1',
  `insert process code` varchar(255) DEFAULT NULL,
  `update dt` timestamp NOT NULL DEFAULT CURRENT TIMESTAMP ON UPDATE
CURRENT TIMESTAMP,
  `update user id` int(11) NOT NULL DEFAULT '-1',
  `update_process_code` varchar(255) DEFAULT NULL,
  `deleted_flag` tinyint(4) NOT NULL DEFAULT '0',
  PRIMARY KEY (`id`, `invoiced date`)
) ENGINE=InnoDB
        DEFAULT CHARSET=utf8
    PARTITION BY RANGE( YEAR(invoiced date) )
    SUBPARTITION BY HASH( MONTH(invoiced date) )
    SUBPARTITIONS 12 (
        PARTITION p1984 VALUES LESS THAN (1985),
        PARTITION p1985 VALUES LESS THAN (1986),
        PARTITION p1986 VALUES LESS THAN (1987),
        PARTITION p1987 VALUES LESS THAN (1988),
        PARTITION p1988 VALUES LESS THAN (1989),
        PARTITION p1989 VALUES LESS THAN (1990),
        PARTITION p1990 VALUES LESS THAN (1991),
        PARTITION p1991 VALUES LESS THAN (1992),
        PARTITION p1992 VALUES LESS THAN (1993),
        PARTITION p1993 VALUES LESS THAN (1994),
        PARTITION POTHER VALUES LESS THAN MAXVALUE
    )
;
```

Example of LIST PARTITION