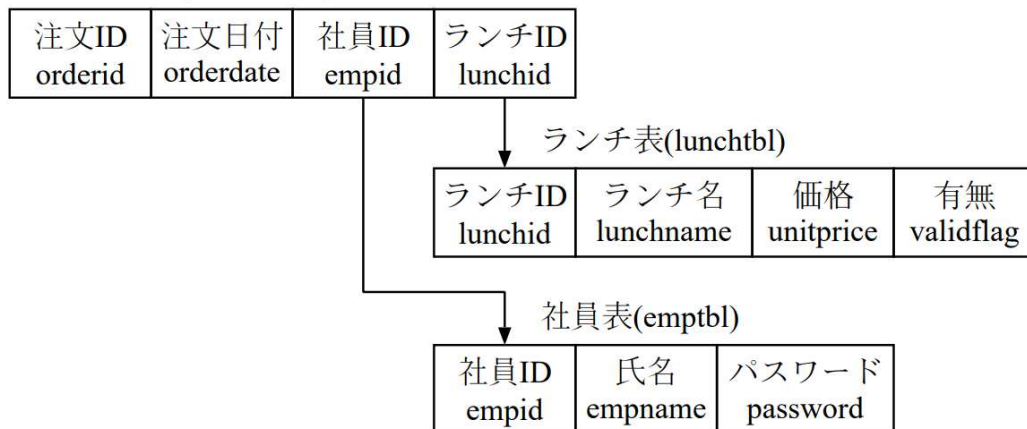


1.MySQLでランチオーダーシステムのDB作成

1.1 作成するテーブルの構造

ランチオーダーシステムのERDを示します。

ランチ注文表(lunchorder)



1.2 テーブルの作成

192.168.56.xxxのサーバにguestユーザで接続後 `sudo -s` でrootに変更後以下によりテーブルを作成します。

```
guest@aso:~$ sudo -s
[sudo] password for guest:
root@aso:/home/guest#
root@aso:/home/guest# mysql -u testuser -p
Enter password:P@ssP@ss456 ← ここは一般ユーザパスワード
Welcome to the MySQL monitor.  Commands end with ; or ¥g.
Your MySQL connection id is 8
Server version: 8.0.32 MySQL Community Server - GPL

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```

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Type 'help;' or '¥h' for help. Type '¥c' to clear the current input statement.

```
mysql> use testdb;
```

Database changed

```
mysql> show tables;
```

```
+-----+
```

```
| Tables_in_testdb |
```

```
+-----+
```

```
| testtbl          | ← 確認時に造ったテーブルが1コあります
```

```
+-----+
```

1 row in set (0.00 sec)

```
mysql>
```

```
mysql> create table emptbl ← emptbl作成
```

```
-> (
```

```
-> empid varchar(10) not null primary key,
```

```
-> empname varchar(30) not null,
```

```
-> password varchar(10)
```

```
-> );
```

Query OK, 0 rows affected (0.05 sec)

```
mysql>
```

```
mysql> create table lunchtbl ← lunchtbl作成
```

```
-> (
```

```
-> lunchid serial not null primary key,
```

```
-> lunchname varchar(40) not null,
```

```
-> unitprice int4 not null,
```

```
-> validflag bool default true not null
```

```
-> );
```

Query OK, 0 rows affected (0.06 sec)

```
mysql>
```

```
mysql> create table lunchorder ← lunchorder作成
```

```
-> (
```

```
-> orderid serial not null primary key,
```

```
-> orderdate date,
```

```
-> empid int4,
```

```
-> lunchid int4
```

```
-> );
```

Query OK, 0 rows affected (0.06 sec)

```
mysql>
mysql> show tables;    ← 新たに3テーブル作成されたか確認
+-----+
| Tables_in_testdb |
+-----+
| emptbl           |
| lunchorder       |
| lunchtbl         |
| testtbl          |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> ↓emptblデータ投入
mysql> insert into emptbl
values('1','watanabe','watanabe');
Query OK, 1 row affected (0.05 sec)
```

```
mysql> insert into emptbl values('2','kodama','kodama');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into emptbl values('3','tanimoto','tanimoto');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into emptbl values('4','ohuchi','ohuchi');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> ↓lunchtblデータ投入
mysql> insert into lunchtbl values(1,'日の丸弁当',300,1);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into lunchtbl values(2,'おにぎり弁当',350,1);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into lunchtbl values(3,'たこやき弁当',400,1);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into lunchtbl values(4,'ラーメン弁当',500,1);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into lunchtbl values(5,'三色弁当',800,1);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into lunchtbl values(6,'幕ノ内弁当',1500,1);
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into lunchtbl values(7,'しゃぶしゃぶ弁当',1500,1);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into lunchtbl values(8,'特製活き造り弁当',2000,1);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> ↓ lunchorderデータ投入
```

```
mysql> insert into lunchorder values(1,'2023-4-1',3,5);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into lunchorder values(2,'2023-4-1',2,6);
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into lunchorder values(3,'2023-4-1',1,6);
```

Query OK, 1 row affected (0.01 sec)

```
mysql>
```

```
mysql> select * from emptbl; ← テーブル内容確認
```

```
+-----+-----+-----+
| empid | empname | password |
+-----+-----+-----+
| 1     | watanabe | watanabe |
| 2     | kodama   | kodama   |
| 3     | tanimoto | tanimoto |
| 4     | ohuchi   | ohuchi   |
+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> select * from lunchorder; ← テーブル内容確認
```

```
+-----+-----+-----+-----+
| orderid | orderdate | empid | lunchid |
+-----+-----+-----+-----+
| 1       | 2023-04-01 | 3     | 5       |
| 2       | 2023-04-01 | 2     | 6       |
| 3       | 2023-04-01 | 1     | 6       |
+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> select * from lunchtbl; ← テーブル内容確認
+-----+-----+-----+-----+
| lunchid | lunchname          | unitprice | validflag |
+-----+-----+-----+-----+
| 1 | 日の丸弁当          | 300 | 1 |
| 2 | おにぎり弁当        | 350 | 1 |
| 3 | たこやき弁当        | 400 | 1 |
| 4 | ラーメン弁当        | 500 | 1 |
| 5 | 三色弁当            | 800 | 1 |
| 6 | 幕ノ内弁当          | 1500 | 1 |
| 7 | しゃぶしゃぶ弁当    | 1500 | 1 |
| 8 | 特製活き造り弁当    | 2000 | 1 |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
mysql> quit
Bye
root@aso:/home/guest#
```

1.3 スキーマの確認

テーブルのフィールド情報などスキーマの内容を確認します。

```
root@aso:/home/guest# mysql -u testuser -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or ¥g.
Your MySQL connection id is 11
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)

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Type 'help;' or '¥h' for help. Type '¥c' to clear the current input
statement.

mysql> select TABLE_NAME,COLUMN_NAME,COLUMN_TYPE
from INFORMATION_SCHEMA.COLUMNS WHERE
```

TABLE_SCHEMA = 'testdb';

```
+-----+-----+-----+
| TABLE_NAME | COLUMN_NAME | COLUMN_TYPE |
+-----+-----+-----+
| emptbl      | empid       | varchar(10)  |
| emptbl      | empname     | varchar(30)  |
| emptbl      | password    | varchar(10)  |
| lunchorder  | empid       | int          |
| lunchorder  | lunchid     | int          |
| lunchorder  | orderdate   | date         |
| lunchorder  | orderid     | bigint unsigned |
| lunchtbl    | lunchid     | bigint unsigned |
| lunchtbl    | lunchname   | varchar(40)  |
| lunchtbl    | unitprice   | int          |
| lunchtbl    | validflag   | tinyint(1)   |
| testtbl     | id          | int          |
| testtbl     | name        | varchar(20)  |
+-----+-----+-----+
```

13 rows in set (0.00 sec)

mysql> **quit**

Bye

root@aso:/home/guest#