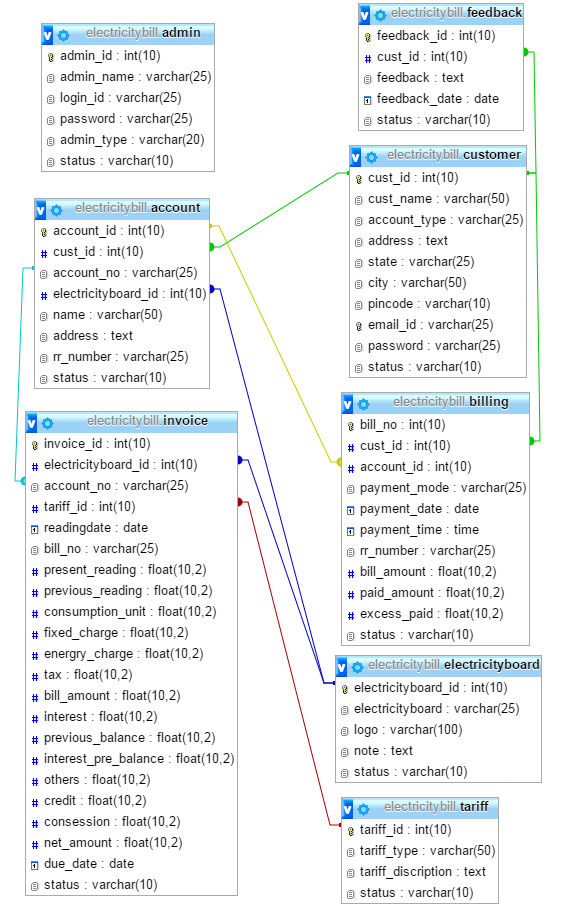
ELECTRICITY BILL MANAGEMENT SYSTEM

INTRODUCTION

Electricity Bill Management System. This system is made to keep the records about the bills of the customers. The admin can manage all the accounts and the registered users like employees and customers can only manage their own accounts. His system helps in maintaining the bills and the payments. A different module is there for employees to check the customer’s details if their job requires it. Admin, employees, and customers all have a different interface and different privileges according to their needs. Like a customer can only manage his account and cannot see any details of other customers, employees can see the details of all the customer’s accounts and the admin can manage all the accounts including the customers and employees’ accounts. This system also has the option for customers to pay their electricity bills online mode.

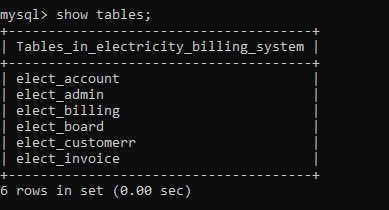
ER DAIGRAM:

DATABASE DESIGN

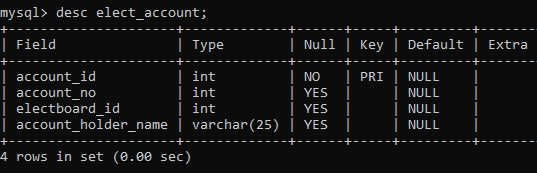
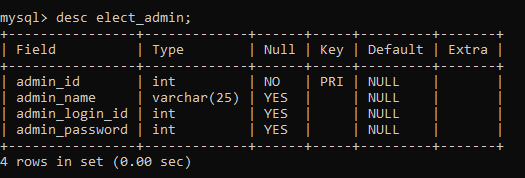
Database: electricity\_billing\_system

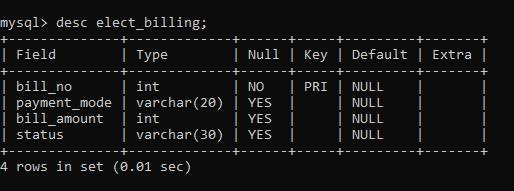
TABLES:

1. Account
2. Admin
3. Billing
4. Board
5. Customer
6. Invoice

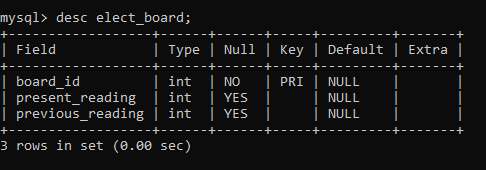


DESCRIBE TABLE:

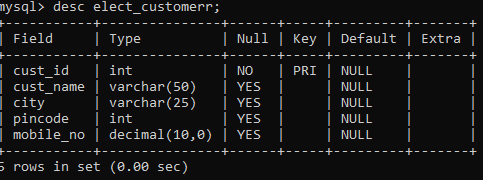
1. Account: 
2. Admin: 
3. Billing:



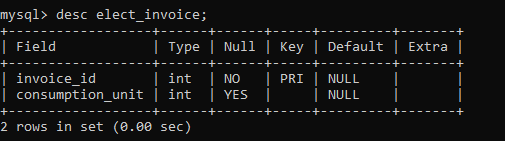
1. Board:



5. Customer:

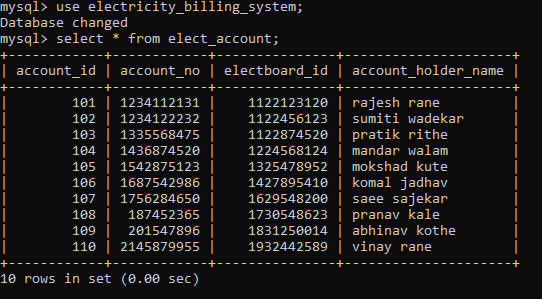


1. Invoice:

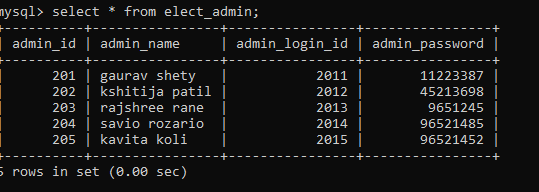


**TABLES: (USING INSERT STATEMENT USING DML COMMANDS)**

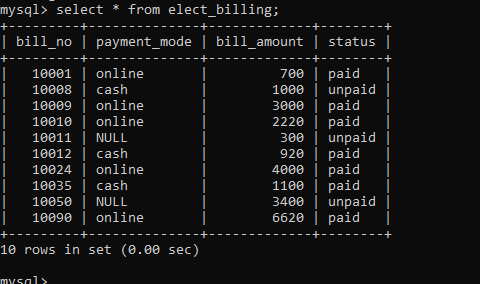
1. **Account:**

****

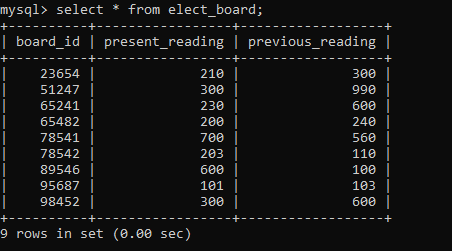
1. **Admin:**

****

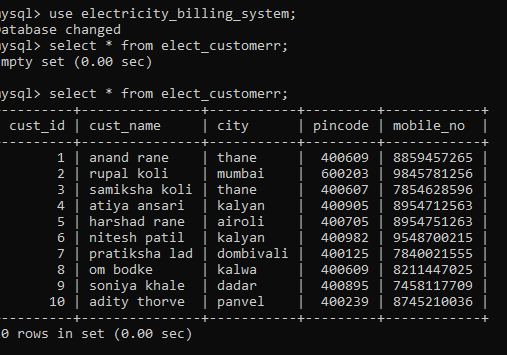
1. **Billing:**

****

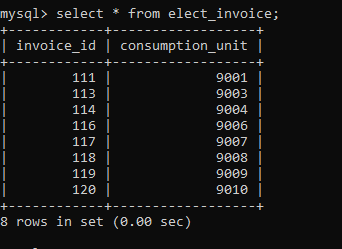
1. **Board:**

****

1. **Customer:**

****

1. **Invoice:**

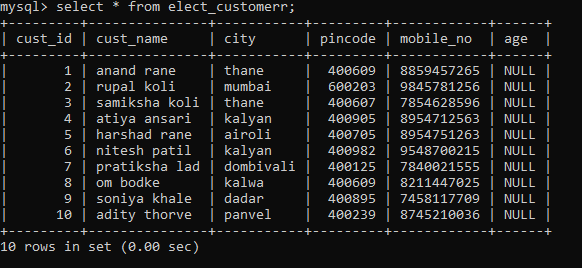
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**USING DDL COMMANDS:**

**ALTER:**

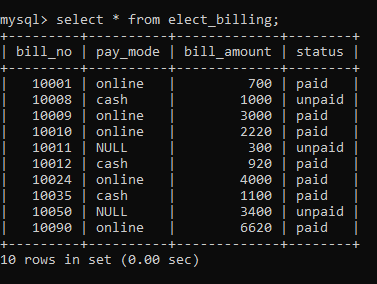
**mysql> alter table elect\_customerr add column age int;**

**mysql> select \* from elect\_customerr;**

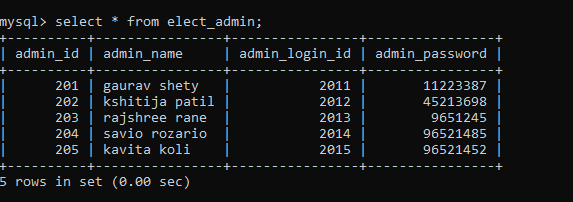
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**mysql> alter table elect\_billing rename column payment\_mode to pay\_mode;**

**mysql> select \* from elect\_billing;**

****

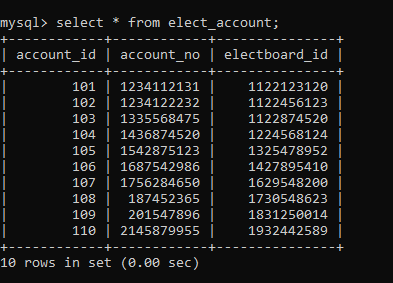
**mysql> alter table elect\_admin modify column admin\_name varchar(50);**

**mysql> select \* from elect\_admin;**

**DROP:**

**alter table elect\_account drop column account\_holder\_name;**

**mysql> select \* from elect\_account;**

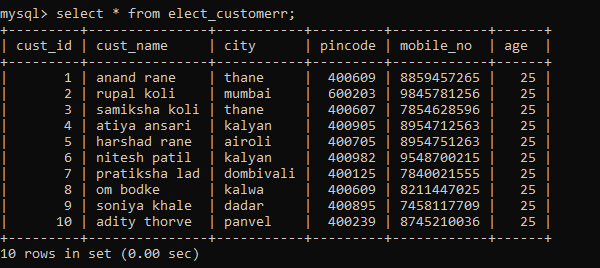
****

**DML COMMANDS:**

**UPDATE:**

**update elect\_customerr set age=25;**

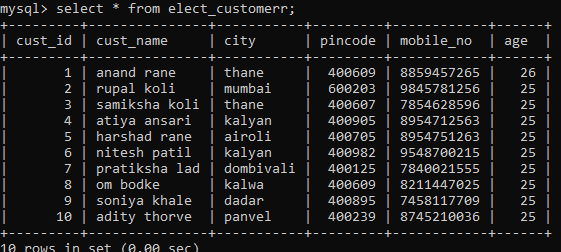
**mysql> select \* from elect\_customerr;**

****

**USING WHERE CLAUSE:**

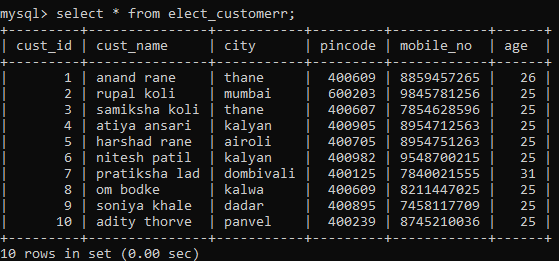
**update elect\_customerr set age=26 where cust\_name="anand rane";**

**mysql> select \* from elect\_customerr;**

****

**mysql> update elect\_customerr set age=31 where cust\_name="pratiksha lad" or cust\_id=7;**

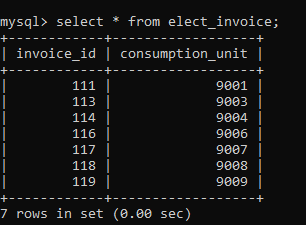
**mysql> select \* from elect\_customerr;**

****

**DELETE STATEMRNT USING WHERE CLAUSE:**

**delete from elect\_invoice where invoice\_id=120;**

**mysql> select \* from elect\_invoice;**

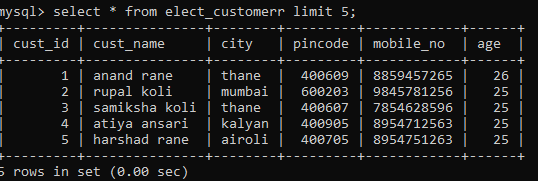
****

**DQL COMMANDS:**

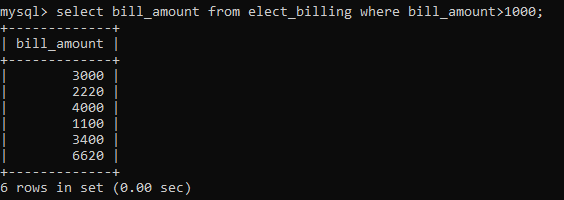
**SELECT:**

**select \* from elect\_customerr;**

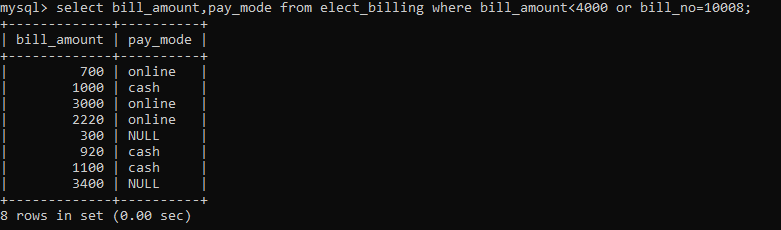
**select \* from elect\_customerr limit 5;**

****

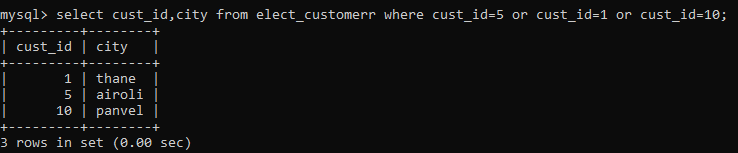
**mysql> select bill\_amount from elect\_billing where bill\_amount>1000;**

****

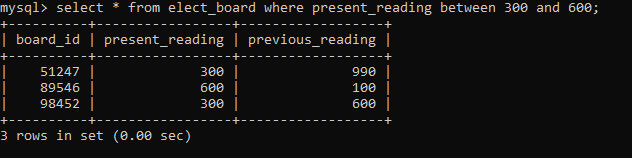
**mysql> select bill\_amount,pay\_mode from elect\_billing where bill\_amount<4000 or bill\_no=10008;**

****

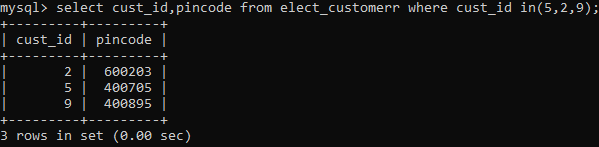
**mysql> select cust\_id,city from elect\_customerr where cust\_id=5 or cust\_id=1 or cust\_id=10;**

****

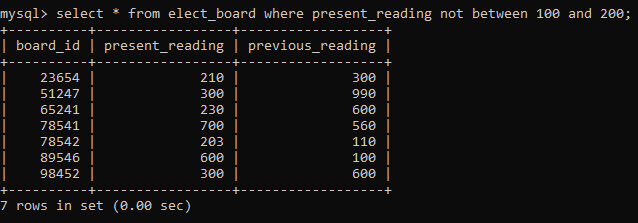
**mysql> select \* from elect\_board where present\_reading between 300 and 600;**

****

**mysql> select cust\_id,pincode from elect\_customerr where cust\_id in(5,2,9);**

****

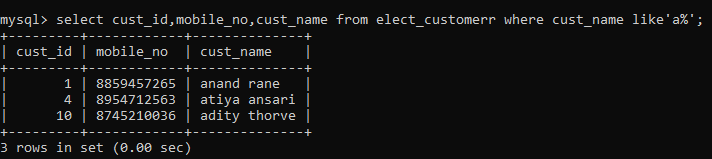
**mysql> select \* from elect\_board where present\_reading not between 100 and 200;**

****

**LIKE OPERATOR:**

**mysql> select \* from elect\_customerr;**

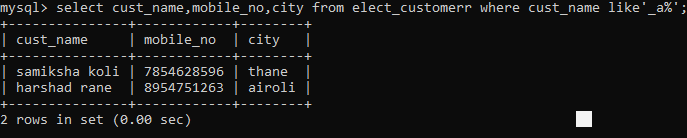
**mysql> select cust\_id,mobile\_no,cust\_name from elect\_customerr where cust\_name like'a%';**

****

**mysql> select cust\_id,mobile\_no,cust\_name from elect\_customerr where cust\_name like'a';**

**Empty set (0.00 sec)**

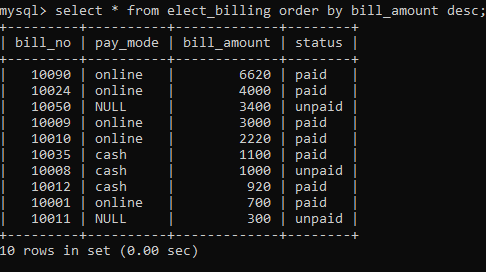
**mysql> select cust\_name,mobile\_no,city from elect\_customerr where cust\_name like'\_a%';**

****

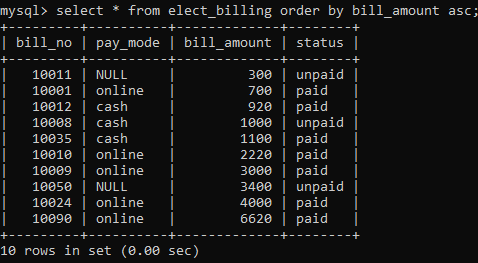
**ORDER BY:**

**mysql> select \* from elect\_billing;**

**mysql> select \* from elect\_billing order by bill\_amount desc;**

****

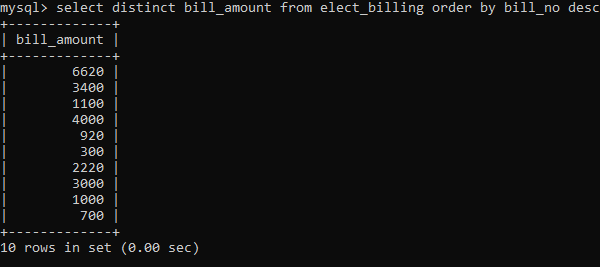
**mysql> select \* from elect\_billing order by bill\_amount asc;**

****

**DISTINCT:**

**mysql> select \* from elect\_billing;**

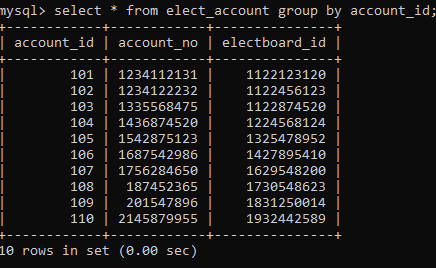
**mysql> select distinct bill\_amount from elect\_billing order by bill\_no desc;**

****

**GROUP BY:**

**mysql> select \* from elect\_account;**

**mysql> select \* from elect\_account group by account\_id;**

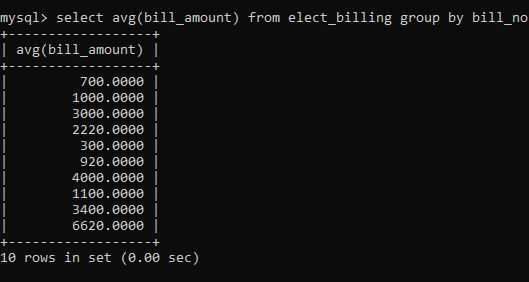
****

**AGGREGATE FUNCTION:**

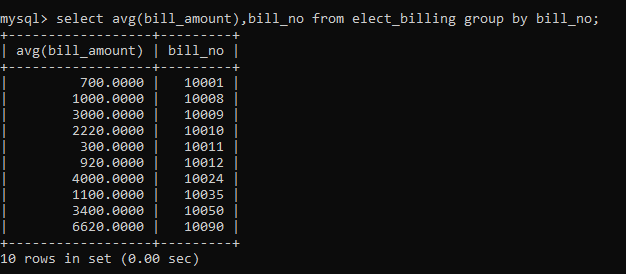
**AVERAGE:**

**select \* from elect\_billing;**

**mysql> select avg(bill\_amount) from elect\_billing group by bill\_no;**

****

**mysql> select avg(bill\_amount),bill\_no from elect\_billing group by bill\_no;**

****

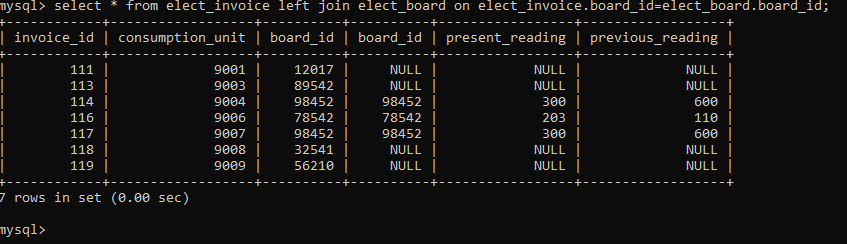
**JOINS**

**LEFT JOIN:**

**mysql> select \* from elect\_invoice;**

**mysql> select \* from elect\_board;**

**mysql> select \* from elect\_invoice left join elect\_board on elect\_invoice.board\_id=elect\_board.board\_id;**

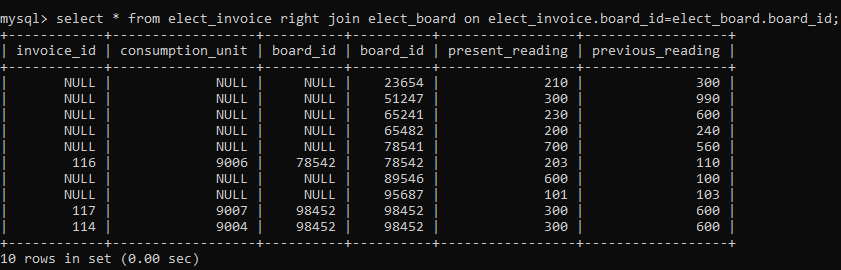
****

**RIGHT JOIN:**

**mysql> select \* from elect\_invoice;**

**mysql> select \* from elect\_board;**

**mysql> select \* from elect\_invoice right join elect\_board on elect\_invoice.board\_id=elect\_board.board\_id;**

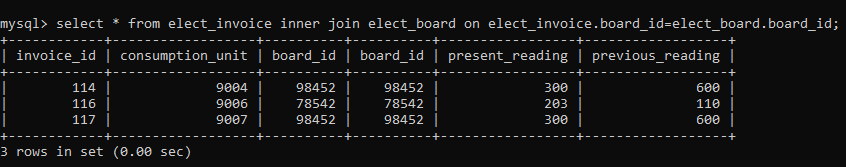
****

**INNER JOIN:**

**mysql> select \* from elect\_invoice;**

**mysql> select \* from elect\_board;**

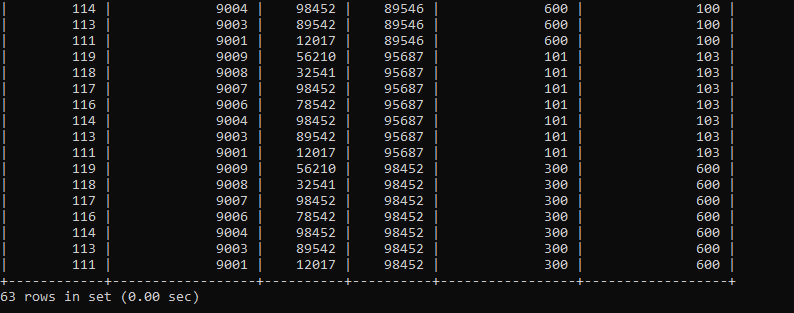
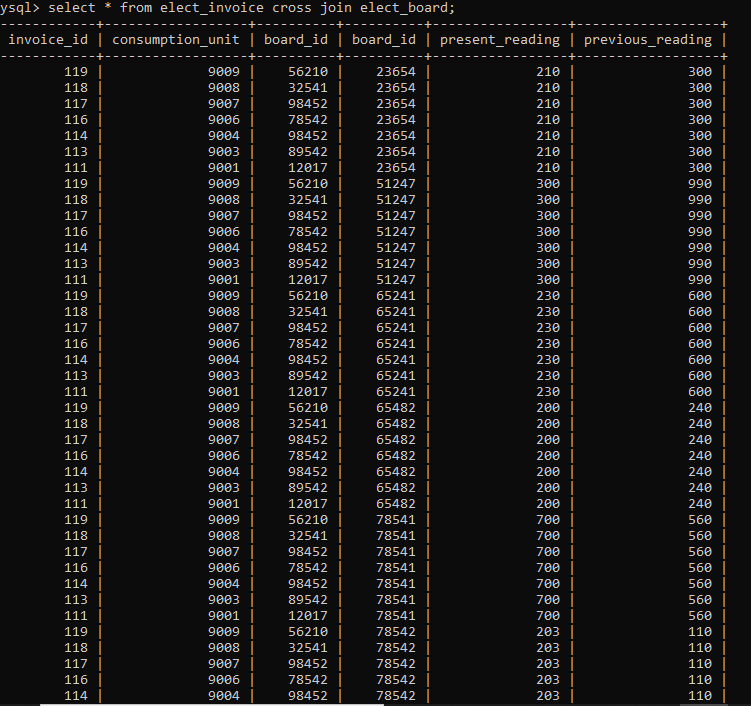
**mysql> select \* from elect\_invoice inner join elect\_board on elect\_invoice.board\_id=elect\_board.board\_id;**

****

**CROSS JOIN:**

**mysql> select \* from elect\_invoice;**

**mysql> select \* from elect\_board;**

**mysql> select \* from elect\_invoice cross join elect\_board;**

**SELF JOIN:**

**mysql> select \* from elect\_invoice;**

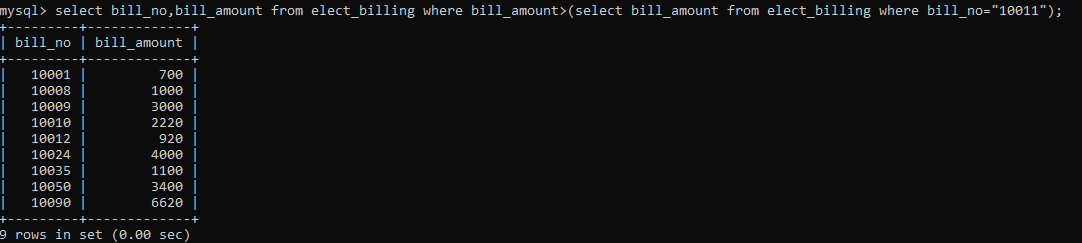
**mysql> select E1.consumption\_unit,E2.consumption\_unit from elect\_invoice E1 join elect\_invoice E2 on E1.invoice\_id=E2.board\_id;**

**Empty set (0.00 sec)**

**SUBQUERY:**

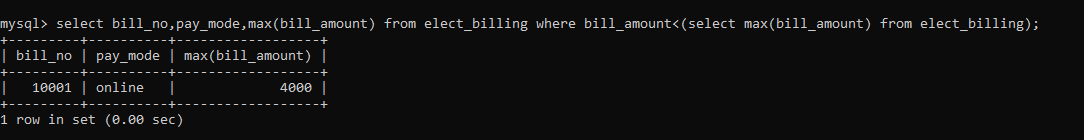
**mysql> select \* from elect\_billing;**

**mysql> select bill\_no,bill\_amount from elect\_billing where bill\_amount>(select bill\_amount from elect\_billing where bill\_no="10011");**

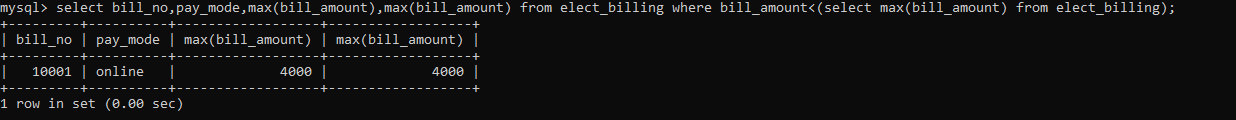
****

**mysql> select \* from elect\_billing;**

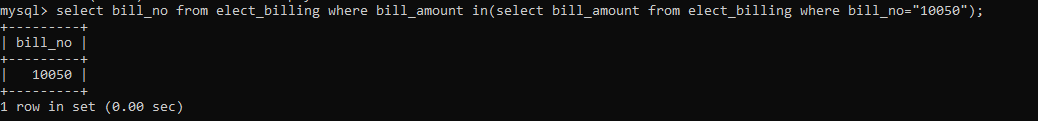
**mysql> select bill\_no,pay\_mode,max(bill\_amount) from elect\_billing where bill\_amount<(select max(bill\_amount) from elect\_billing);**

****

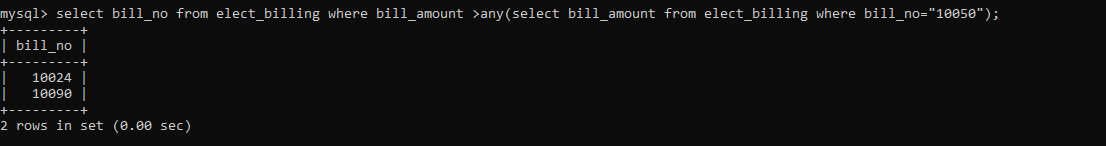
**mysql> select bill\_no,pay\_mode,max(bill\_amount),max(bill\_amount) from elect\_billing where bill\_amount<(select max(bill\_amount) from elect\_billing);**

****

**mysql> select bill\_no from elect\_billing where bill\_amount in(select bill\_amount from elect\_billing where bill\_no="10050");**

****

**mysql> select bill\_no from elect\_billing where bill\_amount >any(select bill\_amount from elect\_billing where bill\_no="10050");**

****