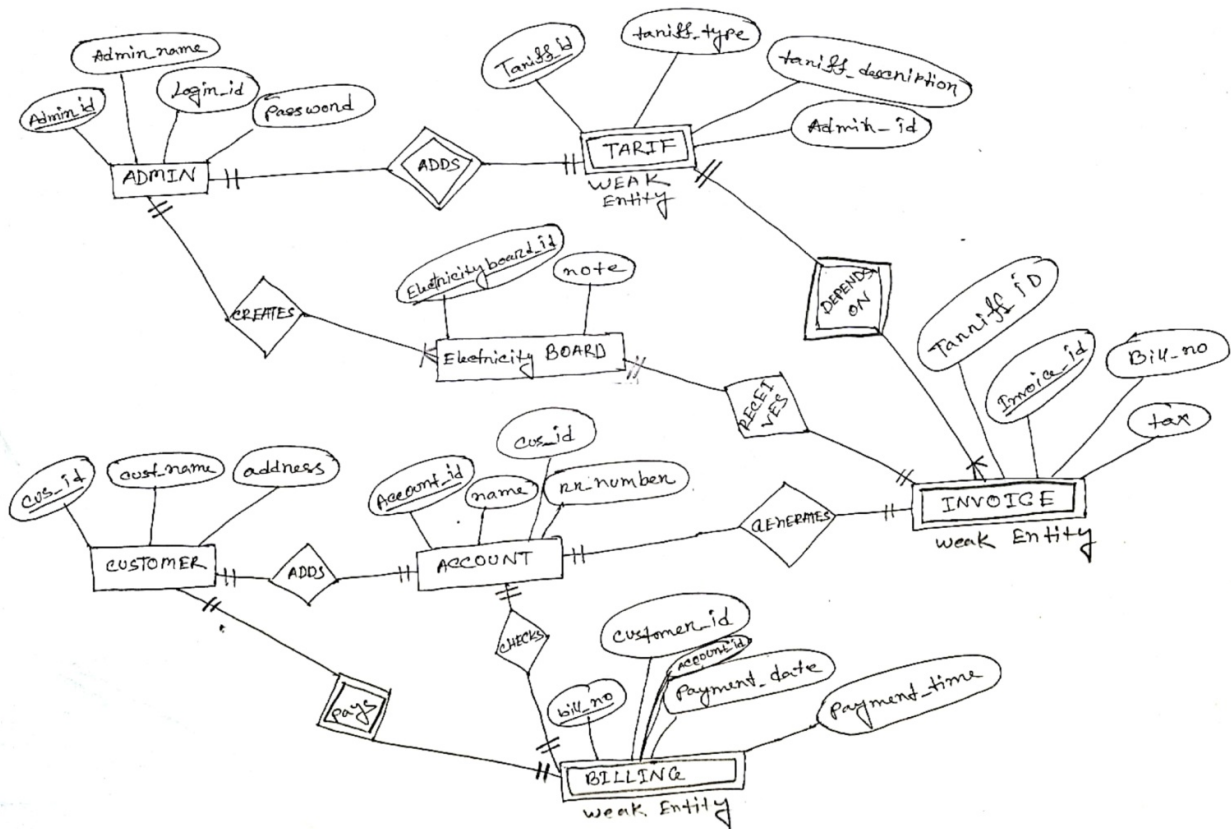# Electric Bill System Database

EER DIAGRAM

SCHEMA

ADMIN

Admin_id	Admid_name	Login_id	Password

TARIFF

Tariff_id	Admin_id	Tariff_description	Tariff_type

INVOICE

Invoice_id	Electricityboard_id	Tariff_id	Bill_no	Tax	Present_reading	Previous_reading	Net_amount

CUSTOMER

Customer_id	Customer_name	Address

ACCOUNT

Account_id	Customer_id	Name	RR_Number

BILLING

Bill_no	Customer_id	Account_id	Payment_date	Payment_time

ELECTRICITY BOARD

Electricityboard_id	Note
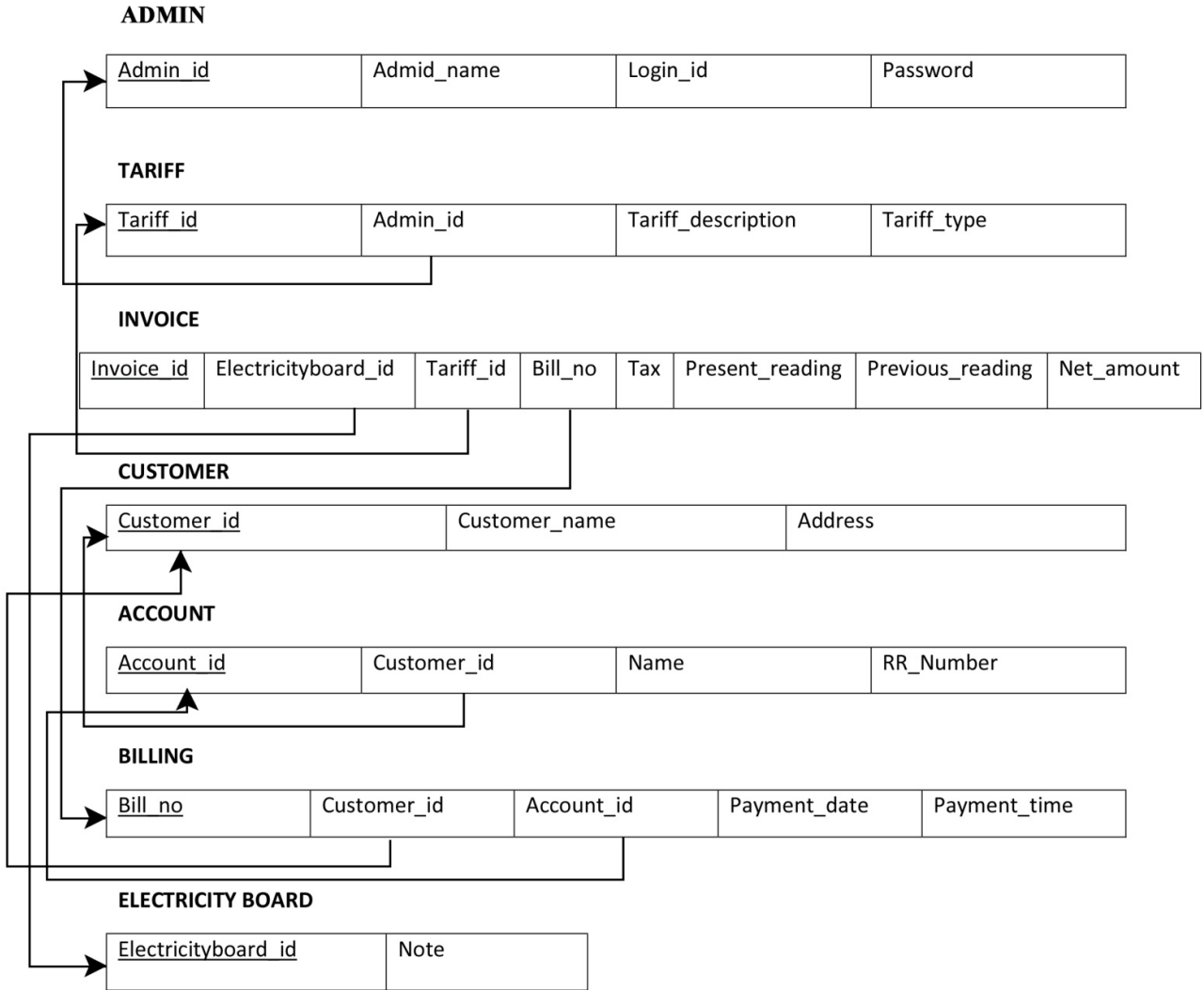
SQL statements

create database electricity_bill_system;

use electricity_bill_system;

ADMIN

CREATE TABLE admin (

Admin_id varchar(15) NOT NULL,

Admin_name varchar(15) NOT NULL,

Login_id varchar(15) NOT NULL,

Password varchar(50) NOT NULL,

PRIMARY KEY (Admin_id)

);

OUTPUT:

```
MariaDB [electricity_bill_system]> CREATE TABLE admin (
    -> Admin_id varchar(15) NOT NULL,
    -> Admin_name varchar(15) NOT NULL,
    -> Login_id varchar(15) NOT NULL,
    -> Password varchar(50) NOT NULL,
    -> PRIMARY KEY (Admin_id)
    -> );
Query OK, 0 rows affected (0.043 sec)

MariaDB [electricity_bill_system]> describe admin;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| Admin_id   | varchar(15) | NO   | PRI | NULL    |       |
| Admin_name | varchar(15) | NO   |     | NULL    |       |
| Login_id   | varchar(15) | NO   |     | NULL    |       |
| Password   | varchar(50) | NO   |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
4 rows in set (0.018 sec)
```

INSERT DATA INTO ADMIN:

insert into admin(Admin_id, Admin_name, Login_id, Password)

values

('EBS-201101', 'Jones', 'Jones201101', '01Jones201101'),

('EBS-201102', 'Smith', 'Smith201102', '02Smith201102'),

('EBS-201103', 'Hayes', 'Hayes201103', '03Hayes201103'),

('EBS-201104', 'Curry', 'Curry201104', '04Curry201104'),

('EBS-201105', 'Lindsay', 'Lindsay201105', '05Lindsay201105');

select * from admin;

Format:

insert into admin(Admin_id, Admin_name, Login_id, Password)

values

('Insert admin ID here', 'Insert admin name here', 'Insert Admin login ID here', 'Insert admin password here');

OUTPUT:

```
MariaDB [electricity_bill_system]> select * from admin;
+------------+------------+---------------+-----------------+
| Admin_id   | Admin_name | Login_id      | Password        |
+------------+------------+---------------+-----------------+
| EBS-201101 | Jones      | Jones201101   | 01Jones201101   |
| EBS-201102 | Smith      | Smith201102   | 02Smith201102   |
| EBS-201103 | Hayes      | Hayes201103   | 03Hayes201103   |
| EBS-201104 | Curry      | Curry201104   | 04Curry201104   |
| EBS-201105 | Lindsay    | Lindsay201105 | 05Lindsay201105 |
+------------+------------+---------------+-----------------+
```

TARIFF

```sql
CREATE TABLE tariff (

Tariff_id varchar(15) NOT NULL,

Admin_id varchar(15) NOT NULL,

Tariff_description varchar(255),

Tariff_type varchar(15),

PRIMARY KEY (Tariff_id),

FOREIGN KEY (Admin_id) REFERENCES admin(Admin_id)

);
```

OUTPUT:

```
MariaDB [electricity_bill_system]> CREATE TABLE tariff (
    -> Tariff_id varchar(15) NOT NULL,
    -> Admin_id varchar(15) NOT NULL,
    -> Tariff_description varchar(255),
    -> Tariff_type varchar(15),
    -> PRIMARY KEY (Tariff_id),
    -> FOREIGN KEY (Admin_id) REFERENCES admin(Admin_id)
    -> );
Query OK, 0 rows affected (0.039 sec)

MariaDB [electricity_bill_system]> describe tariff;
+--------------------+--------------+------+-----+---------+-------+
| Field              | Type         | Null | Key | Default | Extra |
+--------------------+--------------+------+-----+---------+-------+
| Tariff_id          | varchar(15)  | NO   | PRI | NULL    |       |
| Admin_id           | varchar(15)  | NO   | MUL | NULL    |       |
| Tariff_description | varchar(255) | YES  |     | NULL    |       |
| Tariff_type        | varchar(15)  | YES  |     | NULL    |       |
+--------------------+--------------+------+-----+---------+-------+
4 rows in set (0.018 sec)
```

INSERT DATA INTO TARIFF:

insert into tariff(Tariff_id, Admin_id, Tariff_description, Tariff_type)

values

('TID-01', 'EBS-201101', '3.75 tk per unit', 'Low (0-150 unit)'),

('TID-02', 'EBS-201102', '4.19 tk per unit', 'Medium (151-300 unit)'),

('TID-03', 'EBS-201104', '6.34 tk per unit', 'High (301-600 unit)'),

('TID-04', 'EBS-201105', '12.50 tk per unit', 'Platinum(600+ unit)');

select * from tariff;

FORMAT:

insert into tariff(Tariff_id, Admin_id, Tariff_description, Tariff_type)

values

('Insert Tariff id here', 'Insert Admin ID here', 'Insert Tariff description fere', 'Insert Tariff type here');

OUTPUT:

```
MariaDB [electricity_bill_system]> select * from tariff;
+-----------+------------+------------------+-----------------------+
| Tariff_id | Admin_id   | Tariff_description | Tariff_type          |
+-----------+------------+------------------+-----------------------+
| TID-01    | EBS-201101 | 3.75 tk per unit  | Low (0-150 unit)      |
| TID-02    | EBS-201102 | 4.19 tk per unit  | Medium (151-300 unit) |
| TID-03    | EBS-201104 | 6.34 tk per unit  | High (301-600 unit)   |
| TID-04    | EBS-201105 | 12.50 tk per unit | Platinum(600+ unit)   |
+-----------+------------+------------------+-----------------------+
```

INVOICE

CREATE TABLE invoice (

Invoice_id varchar(15) NOT NULL,

Electricity_board_id varchar(15) NOT NULL,

Tariff_id varchar(15) NOT NULL,

Bill_no varchar(15) NOT NULL,

Tax_taka FLOAT,

Present_reading_unit FLOAT,

Previous_reading_unit FLOAT,

Net_amount_taka FLOAT,

PRIMARY KEY (Invoice_id),

FOREIGN KEY (Electricity_board_id) REFERENCES
electricity_board(Electricity_board_id),

FOREIGN KEY (Tariff_id) REFERENCES tariff(Tariff_id),

FOREIGN KEY (Bill_no) REFERENCES billing(Bill_no)

);

OUTPUT:

```
MariaDB [electricity_bill_system]> describe invoice;
+----------------------+-------------+------+-----+---------+-------+
| Field                | Type        | Null | Key | Default | Extra |
+----------------------+-------------+------+-----+---------+-------+
| Invoice_id           | varchar(15) | NO   | PRI | NULL    |       |
| Electricity_board_id | varchar(15) | NO   | MUL | NULL    |       |
| Tariff_id            | varchar(15) | NO   | MUL | NULL    |       |
| Bill_no              | varchar(15) | NO   | MUL | NULL    |       |
| Tax_taka             | float       | YES  |     | NULL    |       |
| Present_reading_unit | float       | YES  |     | NULL    |       |
| Previous_reading_unit| float       | YES  |     | NULL    |       |
| Net_amount_taka      | float       | YES  |     | NULL    |       |
+----------------------+-------------+------+-----+---------+-------+
8 rows in set (0.030 sec)

MariaDB [electricity_bill_system]>
```

INSERT DATA INTO INVOICE:

insert into invoice(Invoice_id, Electricity_board_id, Tariff_id, Bill_no, Tax_taka, Present_reading_unit, Previous_reading_unit, Net_amount_taka)

values

('INV-001', 'EBID0001', 'TID-01', '201101400', '34', '367850', '367750', '409'),

('INV-002', 'EBID0002', 'TID-03', '201101401', '45', '427336', '427026', '2010.4'),

('INV-003', 'EBID0003', 'TID-02', '201202402', '40', '253912', '253650', '1137.78'),

('INV-004', 'EBID0004', 'TID-04', '201202403', '55', '361858', '361295', '3624.42'),

('INV-005', 'EBID0005', 'TID-01', '201903404', '34', '12305', '12200', '491.75'),

('INV-006', 'EBID0006', 'TID-03', '202004405', '45', '11606', '11300', '1985.04');

select * from invoice;

FORMAT:

insert into invoice(Invoice_id, Electricity_board_id, Tariff_id, Bill_no, Tax_taka, Present_reading_unit, Previous_reading_unit, Net_amount_taka)

values

('Insert Invoice_id here ', ' Insert Electricity_board_id here', 'Insert Tariff_id here', 'Insert Bill_no here', 'Insert Tax_taka here', 'Insert Present_reading_unit here', 'Insert Previous_reading_unit here', ' Insert Net_amount_taka here');

OUTPUT:

```
MariaDB [electricity_bill_system]> select * from invoice;
+-----------+----------------------+-----------+-----------+----------+----------------------+-----------------------+----------------+
| Invoice_id | Electricity_board_id | Tariff_id | Bill_no   | Tax_taka | Present_reading_unit | Previous_reading_unit | Net_amount_taka |
+-----------+----------------------+-----------+-----------+----------+----------------------+-----------------------+----------------+
| INV-001   | EBID0001             | TID-01    | 201101400 |       34 |               367850 |                367750 |            409 |
| INV-002   | EBID0002             | TID-03    | 201101401 |       45 |               427336 |                427026 |         2010.4 |
| INV-003   | EBID0003             | TID-02    | 201202402 |       40 |               253912 |                253650 |        1137.78 |
| INV-004   | EBID0004             | TID-04    | 201202403 |       55 |               361858 |                361295 |        3624.42 |
| INV-005   | EBID0005             | TID-01    | 201903404 |       34 |                12305 |                 12200 |         491.75 |
| INV-006   | EBID0006             | TID-03    | 202004405 |       45 |                11606 |                 11300 |        1985.04 |
+-----------+----------------------+-----------+-----------+----------+----------------------+-----------------------+----------------+
```

CUSTOMER

CREATE TABLE customer (

Customer_id varchar(15) NOT NULL,

Customer_name varchar(25) NOT NULL,

Address varchar(50),

PRIMARY KEY (Customer_id)

);

OUTPUT:

```
MariaDB [electricity_bill_system]> CREATE TABLE customer (
    -> Customer_id varchar(15) NOT NULL,
    -> Customer_name varchar(25) NOT NULL,
    -> Address varchar(50),
    -> PRIMARY KEY (Customer_id)
    -> );
Query OK, 0 rows affected (0.036 sec)

MariaDB [electricity_bill_system]> describe customer;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| Customer_id   | varchar(15) | NO   | PRI | NULL    |       |
| Customer_name | varchar(25) | NO   |     | NULL    |       |
| Address       | varchar(50) | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
3 rows in set (0.017 sec)
```

INSERT DATA INTO CUSTOMER:

insert into customer(Customer_id, Customer_name, Address)

values

('24682101', 'Niloy Sen', 'Banani'),

('24682102', 'Tarek', ' Uttara'),

('24682103', 'Sumsul Islam', 'Banani'),

('24682104', 'Nahidul Hoque', 'Gulshan-1'),

('24682105', 'Sanjita Roy', 'Gulshan-2'),

('24682106', 'Shariful Islam', 'Uttara');

select * from customer;

FORMAT:

insert into customer(Customer_id, Customer_name, Address)

values

('Insert Customer_id here ', 'Insert Customer_name here', 'Insert Address here');

Output:

```
MariaDB [electricity_bill_system]> select * from customer;
+------------+----------------+-----------+
| Customer_id | Customer_name  | Address   |
+------------+----------------+-----------+
| 24682101   | Niloy Sen      | Banani    |
| 24682102   | Tarek          |  Uttara   |
| 24682103   | Sumsul Islam   | Banani    |
| 24682104   | Nahidul Hoque  | Gulshan-1 |
| 24682105   | Sanjita Roy    | Gulshan-2 |
| 24682106   | Shariful Islam | Uttara    |
+------------+----------------+-----------+
```

ACCOUNT

CREATE TABLE account (

Account_id varchar(15) NOT NULL,

Customer_id varchar(15) NOT NULL,

Name varchar(25),

RR_number varchar(20),

PRIMARY KEY (Account_id),

FOREIGN KEY (Customer_id) REFERENCES customer(Customer_id)

);

OUTPUT:

```
MariaDB [electricity_bill_system]> CREATE TABLE account (
    -> Account_id varchar(15) NOT NULL,
    -> Customer_id varchar(15) NOT NULL,
    -> Name varchar(25),
    -> RR_number varchar(20),
    -> PRIMARY KEY (Account_id),
    -> FOREIGN KEY (Customer_id) REFERENCES customer(Customer_id)
    -> );
Query OK, 0 rows affected (0.034 sec)

MariaDB [electricity_bill_system]> describe account;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Account_id  | varchar(15) | NO   | PRI | NULL    |       |
| Customer_id | varchar(15) | NO   | MUL | NULL    |       |
| Name        | varchar(25) | YES  |     | NULL    |       |
| RR_number   | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
4 rows in set (0.018 sec)
```

INSERT DATA INTO ACCOUNT:

insert into account(Account_id, Customer_id, Name, RR_number)

values

('201124682101', '24682101', 'Niloy Sen', 'BNN201'),

('201124682102', '24682102', 'Tarek', 'UTT101'),

('201224682103', '24682103', 'Sumsul Islam', 'BNN202'),

('201224682104', '24682104', 'Nahidul Hoque', 'GLN301'),

('201924682105', '24682105', 'Sanjita Roy', 'GLN401'),

('202024682106', '24682106', 'Shariful Islam', 'UTT102');

select * from account;

FORMAT:

insert into account(Account_id, Customer_id, Name, RR_number)

values

('Insert Account_id here', 'Insert Customer_id here', Insert Name here', 'Insert RR_number here');

OUTPUT:

```
MariaDB [electricity_bill_system]> select * from account;
+--------------+-------------+---------------+-----------+
| Account_id   | Customer_id | Name          | RR_number |
+--------------+-------------+---------------+-----------+
| 201124682101 | 24682101    | Niloy Sen     | BNN201    |
| 201124682102 | 24682102    | Tarek         | UTT101    |
| 201224682103 | 24682103    | Sumsul Islam  | BNN202    |
| 201224682104 | 24682104    | Nahidul Hoque | GLN301    |
| 201924682105 | 24682105    | Sanjita Roy   | GLN401    |
| 202024682106 | 24682106    | Shariful Islam| UTT102    |
+--------------+-------------+---------------+-----------+
```

BILLING

CREATE TABLE billing (

Bill_no varchar(15) NOT NULL,

Customer_id varchar(15) NOT NULL,

Account_id varchar(15) NOT NULL,

Payment_date DATE,

Payment_time TIME,

PRIMARY KEY (Bill_no),

FOREIGN KEY (Customer_id) REFERENCES customer(Customer_id),

FOREIGN KEY (Account_id) REFERENCES account(Account_id)

);

OUTPUT:

```
MariaDB [electricity_bill_system]> CREATE TABLE billing (
    -> Bill_no varchar(15) NOT NULL,
    -> Customer_id varchar(15) NOT NULL,
    -> Account_id varchar(15) NOT NULL,
    -> Payment_date DATE,
    -> Payment_time TIME,
    -> PRIMARY KEY (Bill_no),
    -> FOREIGN KEY (Customer_id) REFERENCES customer(Customer_id),
    -> FOREIGN KEY (Account_id) REFERENCES account(Account_id)
    -> );
Query OK, 0 rows affected (0.044 sec)

MariaDB [electricity_bill_system]> describe billing;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| Bill_no      | varchar(15) | NO   | PRI | NULL    |       |
| Customer_id  | varchar(15) | NO   | MUL | NULL    |       |
| Account_id   | varchar(15) | NO   | MUL | NULL    |       |
| Payment_date | date        | YES  |     | NULL    |       |
| Payment_time | time        | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
5 rows in set (0.012 sec)
```

INSERT DATA INTO BILLING:

insert into billing(Bill_no, Customer_id, Account_id, Payment_date, Payment_time)

values

('201101400', '24682101', '201124682101', '2021-12-09', '09:15:00'),

('201101401', '24682102', '201124682102', '2021-12-10', '11:25:00'),

('201202402', '24682103', '201224682103', '2021-12-12', '14:34:00'),

('201202403', '24682104', '201224682104', '2021-12-14', '13:45:00'),

('201903404', '24682105', '201924682105', '2021-12-25', '10:12:00'),

('202004405', '24682106', '202024682106', '2021-12-29', '15:30:00');

select * from billing;

FORMAT:

insert into billing(Bill_no, Customer_id, Account_id, Payment_date, Payment_time)

values

('Insert Bill_no here', 'Insert Customer_id here', 'Insert Account_id here', 'Insert Payment_date here', 'Insert Payment_time here');

OUTPUT:

```
MariaDB [electricity_bill_system]> select * from billing;
+-----------+-------------+---------------+--------------+--------------+
| Bill_no   | Customer_id | Account_id    | Payment_date | Payment_time |
+-----------+-------------+---------------+--------------+--------------+
| 201101400 | 24682101    | 201124682101  | 2021-12-09   | 09:15:00     |
| 201101401 | 24682102    | 201124682102  | 2021-12-10   | 11:25:00     |
| 201202402 | 24682103    | 201224682103  | 2021-12-12   | 14:34:00     |
| 201202403 | 24682104    | 201224682104  | 2021-12-14   | 13:45:00     |
| 201903404 | 24682105    | 201924682105  | 2021-12-25   | 10:12:00     |
| 202004405 | 24682106    | 202024682106  | 2021-12-29   | 15:30:00     |
+-----------+-------------+---------------+--------------+--------------+
```

ELECTRICITY BOARD

CREATE TABLE electricity_board (

Electricity_board_id varchar(15) NOT NULL,

Note varchar(50),

PRIMARY KEY (Electricity_board_id)

);

OUTPUT:

```
MariaDB [electricity_bill_system]> CREATE TABLE electricity_board (
    -> Electricity_board_id varchar(15) NOT NULL,
    -> Note varchar(50),
    -> PRIMARY KEY (Electricity_board_id)
    -> );
Query OK, 0 rows affected (0.033 sec)

MariaDB [electricity_bill_system]> describe Electricity_board;
+----------------------+-------------+------+-----+---------+-------+
| Field                | Type        | Null | Key | Default | Extra |
+----------------------+-------------+------+-----+---------+-------+
| Electricity_board_id | varchar(15) | NO   | PRI | NULL    |       |
| Note                 | varchar(50) | YES  |     | NULL    |       |
+----------------------+-------------+------+-----+---------+-------+
2 rows in set (0.015 sec)
```

INSERT DATA INTO ELECTRICITY BOARD

insert into electricity_board(Electricity_board_id, Note)

values

('EBID0001', 'Residential Area'),

('EBID0002', 'Residential Area'),

('EBID0003', 'Residential Area'),

('EBID0004', 'Residential Area'),

('EBID0005', 'Residential Area'),

('EBID0006', 'Residential Area');

select * from electricity_board;

FORMAT:

insert into electricity_board(Electricity_board_id, Note)

values

('Insert Electricity_board_id here', 'Insert Note here');

UPDATE ADMIN INFORMATION

UPDATE admin

SET Admin_name = 'Type new name here',

Login_id = 'Type new Login_id here',

Password= 'Type new Password here'

WHERE Admin_id = 'Type the Admin id which data you want to change';

select * from admin;

UPDATE TARIFF INFORMATION

UPDATE tariff

SET Tariff_description = 'Type new descriptio here',

Tariff_type = 'Type new Tariff_type here'

WHERE Tariff_id = 'Type the Tariff_id which data you want to change';

select * from tariff;

UPDATE INVOICE INFORMATION

UPDATE invoice

SET Tax_taka = 'Type new Tax here',

Present_reading_unit = 'Type new present reading unit here'

Previos_reading_unit = 'Type new previous reading unit here'

WHERE Invoice_id = 'Type the invoice id which you want to change';

select * from invoice;

UPDATE CUSTOMER INFORMATION

UPDATE customer

SET Customer_name = 'Type new name here',

Address = 'Type new adress here'

WHERE Customer_id= 'Type the Customer id which data you want to change';

select * from customer;

UPDATE ACCOUNT INFORMATION

UPDATE account

SET Name = 'Type new name here',

RR_Number = 'Type new RR_Number here'

WHERE Accunt_id= 'Type the Account id which data you want to change';

select * from account;

UPDATE BILLING INFORMATION

UPDATE billing

SET Payment_date = 'Type new Payment_date here',

Payment_time = 'Type new Payment_time here'

WHERE Bill_no= 'Type the Bill_no which data you want to change';

select * from billing;

UPDATE ELECTRICITY BOARD INFORMATION

UPDATE electricity_board

SET Electricityboard_id = 'Type new electricity board id here',

Note = 'Type new Note here'

WHERE Electricityboard_id = 'Type the Electricityboard_id which data you want to change';

select * from electricity_board;

DELETE ADMIN INFORMATION

Delete FROM admin

WHERE Admin_id = 'Type the admin id which data you want to delete';

select * from admin;

DELETE TARIFF INFORMATION

Delete FROM tariff

WHERE Tariff_id = 'Type the tariff id which data you want to delete';

select * from tariff;

DELETE INVOICE INFORMATION

Delete FROM invoice

WHERE Invoice_id = 'Type the invoice id which data you want to delete';

select * from invoice;

DELETE CUSTOMER INFORMATION

Delete FROM customer

WHERE Customer_id = 'Type the Customer id which data you want to delete';

select * from customer;

DELETE ACCOUNT INFORMATION

Delete FROM account

WHERE Account_id = 'Type the Account id which data you want to delete';

select * from account;

DELETE BILLING INFORMATION

Delete FROM billing

WHERE Bill_no = 'Type the Bill no which data you want to delete';

select * from billing;

DELETE ELECTRICITY BOARD INFORMATION

Delete FROM electricity_board

WHERE Electricityboard_id = 'Type Electricityboard_id which data you want to delete';

select * from electricity_board;

1) Find the customer's name whose address is banani ?

Select Customer_name

From Customer

Where address = "Banani";

Output:

```
MariaDB [electricity_bill_system]> Select Customer_name
    -> From Customer
    -> Where address = "Banani";
+---------------+
| Customer_name |
+---------------+
| Niloy Sen     |
| Sumsul Islam  |
+---------------+
2 rows in set (0.036 sec)
```

2) Find the customer's id and customer's name whose payment time is 15:30:00 ?

SELECT Customer_name

FROM Customer C, billing B

WHERE C.Customer_id = B.Customer_id

AND Payment_time = "15:30:00";

Output:

```
MariaDB [electricity_bill_system]> SELECT Customer_name
    -> FROM Customer C, billing B
    -> WHERE C.Customer_id = B.Customer_id
    -> AND Payment_time = "15:30:00";
+---------------+
| Customer_name |
+---------------+
| Shariful Islam |
+---------------+
1 row in set (0.006 sec)
```

3) FInd the admin name and password from the tariff Description ?

SELECT Admin_name , Password

FROM ADMIN A , TARIFF T

WHERE A.Admin_id = T.Admin_id

AND Tariff_description ;

Output:

```
MariaDB [electricity_bill_system]> SELECT Admin_name , Password
    -> FROM ADMIN A , TARIFF T
    -> WHERE A.Admin_id = T.Admin_id
    -> AND Tariff_description ;
+------------+----------------+
| Admin_name | Password       |
+------------+----------------+
| Sakib      | shakib01478    |
| Smith      | 02Smith201102  |
| Curry      | 04Curry201104  |
| Lindsay    | 05Lindsay201105 |
+------------+----------------+
```

4) Find the names and addresses who have bill no 201202403 ?

SELECT Customer_name ,Address

FROM Customer C, billing B

WHERE C.Customer_id = B.Customer_id

AND Bill_no = "201202403";

OUTPUT:

```
MariaDB [electricity_bill_system]> SELECT Customer_name ,Address
    -> FROM Customer C, billing B
    -> WHERE C.Customer_id = B.Customer_id
    -> AND Bill_no = "201202403";
+---------------+-----------+
| Customer_name | Address   |
+---------------+-----------+
| Nahidul Hoque | Gulshan-1 |
+---------------+-----------+
1 row in set (0.000 sec)
```


5) Find the bill_no who gives payment between 09-12-2021 to 14-12-2021?

Select Bill_no

From billing

Where Payment_date between "2021-12-09"and "2021-12-04";


```
MariaDB [electricity_bill_system]> Select Bill_no
    -> From billing
    -> Where Payment_date between "2021-12-09"and "2021-12-04";
Empty set (0.000 sec)
```

6) Find the customers name whose name ending is Islam?

select customer_name

from customer

where customer_name like "%Islam%"

OUTPUT:

```
MariaDB [electricity_bill_system]> select customer_name
    -> from customer
    -> where customer_name like "%Islam%";
+----------------+
| customer_name  |
+----------------+
| Sumsul Islam   |
| Shariful Islam |
+----------------+
2 rows in set (0.001 sec)
```

7) Find the Tariff id whose net amount is greater than 1137.78 TK?

SELECT Tariff_id

FROM INVOICE

WHERE Net_amount_taka > "1137.78"

OUTPUT:

```
MariaDB [electricity_bill_system]> SELECT Tariff_id
    -> FROM INVOICE
    -> WHERE Net_amount_taka > "1137.78";
+-----------+
| Tariff_id |
+-----------+
| TID-03    |
| TID-02    |
| TID-04    |
| TID-03    |
+-----------+
4 rows in set (0.006 sec)
```