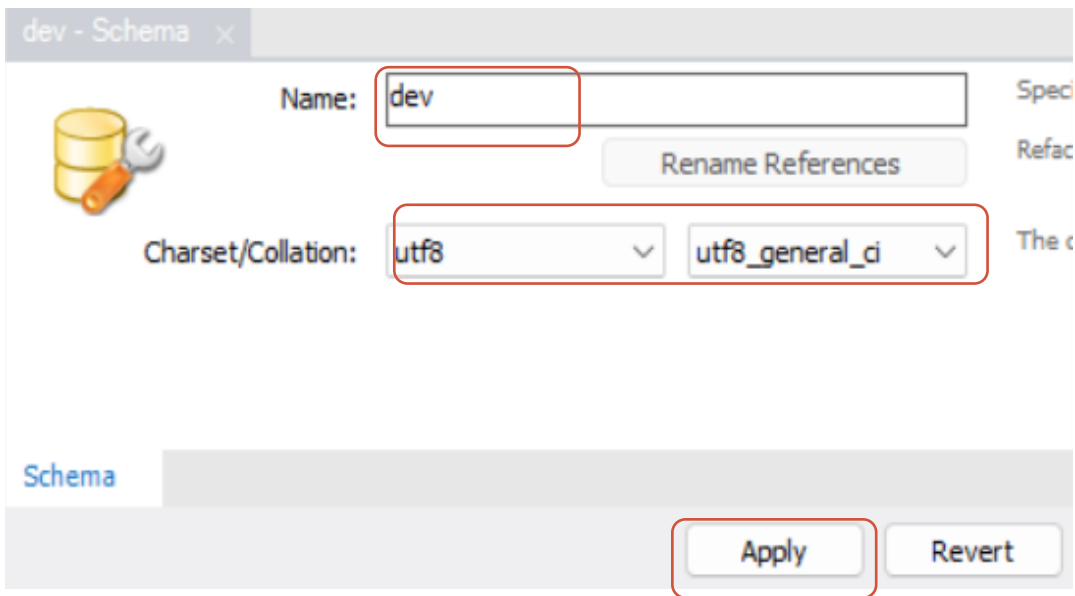


- `mysql`



```
CREATE SCHEMA `dev` DEFAULT CHARACTER SET utf8 ;
```

customer - Table x



Table Name: customer

Schema: dev

Charset/Collation:

Default Charset

Default Collation

Engine: InnoDB

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
name	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
email	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
phone	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
address	VARCHAR(100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

```
CREATE TABLE `dev`.`customer` (  
  `id` INT NOT NULL AUTO_INCREMENT,  
  `name` VARCHAR(45) NOT NULL,  
  `email` VARCHAR(45) NOT NULL,  
  `phone` VARCHAR(45) NOT NULL,  
  `address` VARCHAR(100) NULL,  
  PRIMARY KEY (`id`));
```

- 데이터 입력

```
insert into dev.customer(id, name, email, phone, address)
values(1, '홍길동', 'hong@gmail.com', '010-111-2222', '');
```

- 데이터 수정

- 데이터 삭제

- 데이터 조회

- mysql 모듈 설치

```
> npm install mysql
```

- mysql 연결

- 사용자계정 생성

```
create user 'dev01'@'%' identified with mysql_native_password by '1234';
```

- 권한 부여

```
grant all privileges on dev.* to 'dev01'@'%' with grant option;  
flush privileges;
```

```
// mysql 모듈 로드
const mysql = require("mysql");

// mysql 접속 정보
const conn = { host: "192.168.0.1", port: "3306", user: "dev01", password: "1234",
               database: "dev", };

// DB 커넥션 생성
let connection = mysql.createConnection(conn);
// DB 접속
connection.connect();

sql = "SELECT * FROM customer";
connection.query(sql, function (err, results, fields) {
  if (err) { console.log(err); }
  console.log(results);
});

// DB 접속 종료
connection.end();
```

```
const mysql = require("mysql");
```

```
// mysql 접속 정보
```

```
const conn = {  
  host: "192.168.0.1",  
  port: "3306",  
  user: "dev01",  
  password: "1234",  
  database: "dev",  
  connectionLimit: 10,  
};
```

```
let pool = mysql.createPool(conn);
```

```
module.exports = { pool };
```

```
const mysql = require("mysql"); // mysql 모듈 로드

// mysql 접속 정보
const conn = {
  host: "localhost",
  ...
  connectionLimit: 10,
};

let pool = mysql.createPool(conn); // DB 커넥션 생성

sql = "SELECT * FROM customer";
pool.query(sql, function (err, results, fields) {
  console.log(results);
  process.exit();
});
```



```
const mysql = require("mysql");

// mysql 접속 정보
const conn = {
  host: "localhost",
  ...
  connectionLimit: 10,
};

// DB 커넥션 생성
let pool = mysql.createPool(conn);

module.exports = pool;
```

```
const mysql = require("./mysql_pool");

sql = "SELECT * FROM customer";
mysql.pool.query(sql,
  function (err, results, fields) {
    if (err) {
      console.log(err);
    }
    console.log(results);
  });
```

