Data Definition Language

建表-改表-删表

建议用GUI，需要SQL的话直接导出

1. 主键

    a. 自增

2. 联合主键

    a. SC表

create table SC
(
SNO int,
CNO int,
SCGRADE int,
primary key (SNO, CNO)
)


```
primary key (SNO, CNO)
```


3. 数据类型

    a. https://dev.mysql.com/doc/refman/5.7/en/data-types.html
    b. https://www.runoob.com/mysql/mysql-data-types.html

4. 非空约束

5. 唯一约束

6. 默认值

7. 外键约束


```
#没有加主键外键约束的表
create table student
(
id tinyint,
name varchar(20) not null,
sex tinyint,
age smallint,
sdate date,
grade tinyint default 1,
`class` tinyint,
email varchar(50)
);
```

```
#自增主键
drop table student;
create table student
(
id tinyint primary key auto_increment,
name varchar(20) not null,
sex tinyint,
age smallint,
sdate date,
grade tinyint default 1,
class tinyint,
email varchar(50) unique
);

#自增主键在insert语句中不允许插入，由数据库自动插入
insert into student values
(null, 'zhangsan', 1, 15, curdate(), 3, 40, 'zhangsan@mashibing.com');

#指定自增初始值
create table student
(
id int primary key auto_increment,
name varchar(20) not null,
sex tinyint,
age smallint,
sdate date,
grade tinyint default 1,
class tinyint,
email varchar(50)
) auto_increment = 100;

#创建班级表
create table `class`
(
id int primary key auto_increment,
cname varchar(20)
)

#外键约束
drop table student;
create table student
(
id int primary key auto_increment,
name varchar(20) not null,
```

sex tinyint,
age smallint,
sdate date,
grade tinyint default 1,
class int,
email varchar(50),
FOREIGN KEY fk_class(class) REFERENCES `class`(id)

) auto_increment = 100;

#测试外键约束
insert into student values
(null, 'zhangsan', 1, 15, curdate(), 3, 40, 'zhangsan@mashibing.com');

```
FOREIGN KEY fk_class(class) REFERENCES `class`(id)
```

删除表：

```
drop table XXX;
```