

## 1.database architecture

Server - database - table view procedure function

Table - column data constraint(primary key | foreign key | not null | unique | default)

index trigger

View - column

## 2.SQL language

### 1.database

- ① create database database\_name;
- ② show databases;
- ③ use database\_name;
- ④ alter database database\_name alter\_spec;
- ⑤ drop database database\_name;

### 2.table

- ① create table table\_name (column type constraint );
- ② show tables;
- ③ show create table table\_name;
- ④ show columns from table\_name from database\_name; show columns from database\_name.table\_name;
- ⑤ desc(describe) table\_name; desc(describe) table\_name column\_name;
- ⑥ alter table table\_name alter\_spec;
- ⑦ rename table table\_name1 to table\_name2;
- ⑧ drop table table\_name;

### 3.view

- ① create view view\_name (column\_list) as select column\_list from table\_list;
- ② show create view view\_name;
- ③ drop view view\_name;

### 4.insert

insert into table\_name (column\_list) values (value\_list);

### 5.update

update table\_name set column\_name=value where expression;

## 6.delete

delete from table\_name where expression;

## 7.select

①select \*/column\_list from table\_list/view\_list

where expression;

order by column\_name asc/desc;

group by column\_name;

having expression;

limit offset,row count;

②select \*/column\_list from table\_name1/view\_name1 inner join/left outer join/right outer join table\_name2/view\_name2 on expression;

③select expression1 union/union all select expression2;

## 8.index

①create [unique/fulltext/spatial] index index\_name on table\_name  
(col\_name[length]) [asc/desc];

②show index from table\_name;

③drop index index\_name on table\_name;

1.create database books;

2.grant all on \* to test\_one;

2.grant all on \* to test\_one identified by 'test\_one';

2.grant select, insert, update, delete, index, alter, create, drop on books.\* to  
bookadmin identified by '123';

3.update user set Password = PASSWORD('jiaqizhang') where User = 'test\_one';

4.delete from user where User = '';

5.mysql -u bookadmin -p -D books < ./bookorama.sql

6.mysqldump -u root -p --opt books > ./books\_sql\_backup.sql