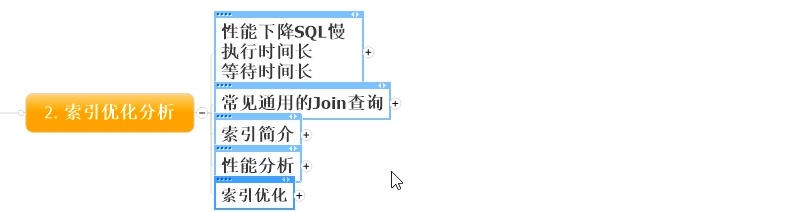
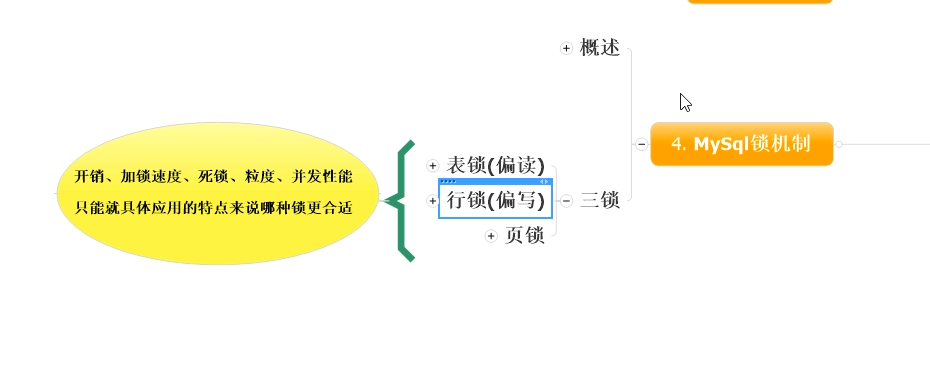
# 高级入门

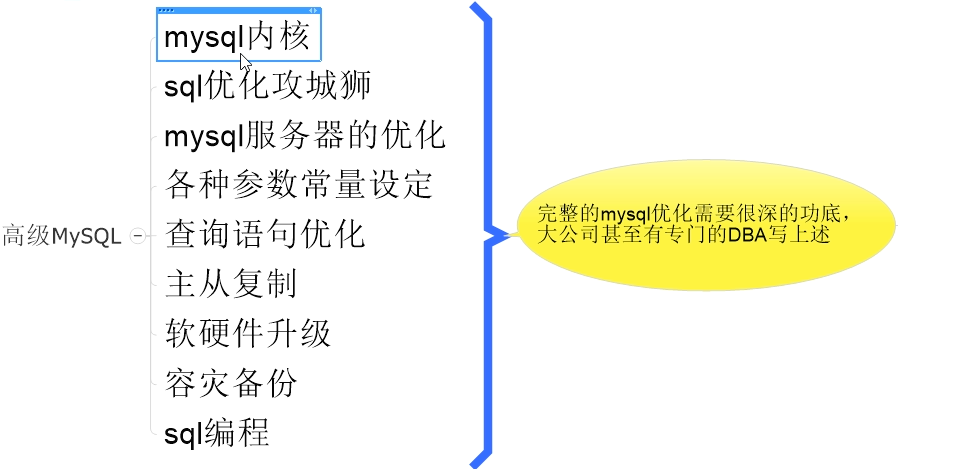








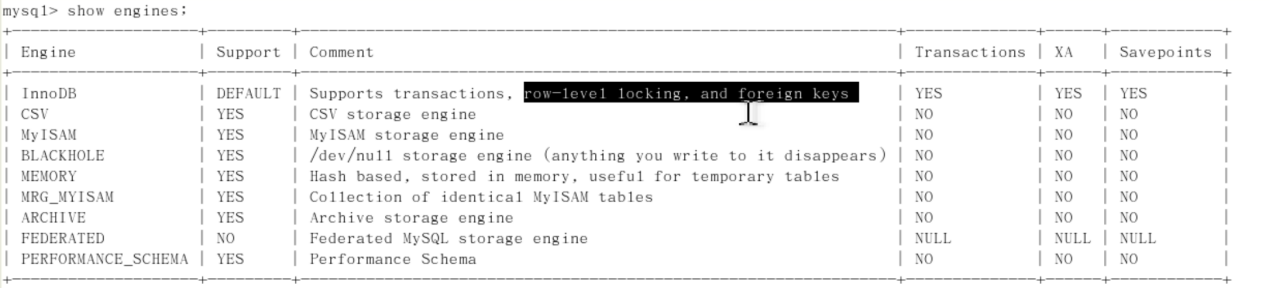


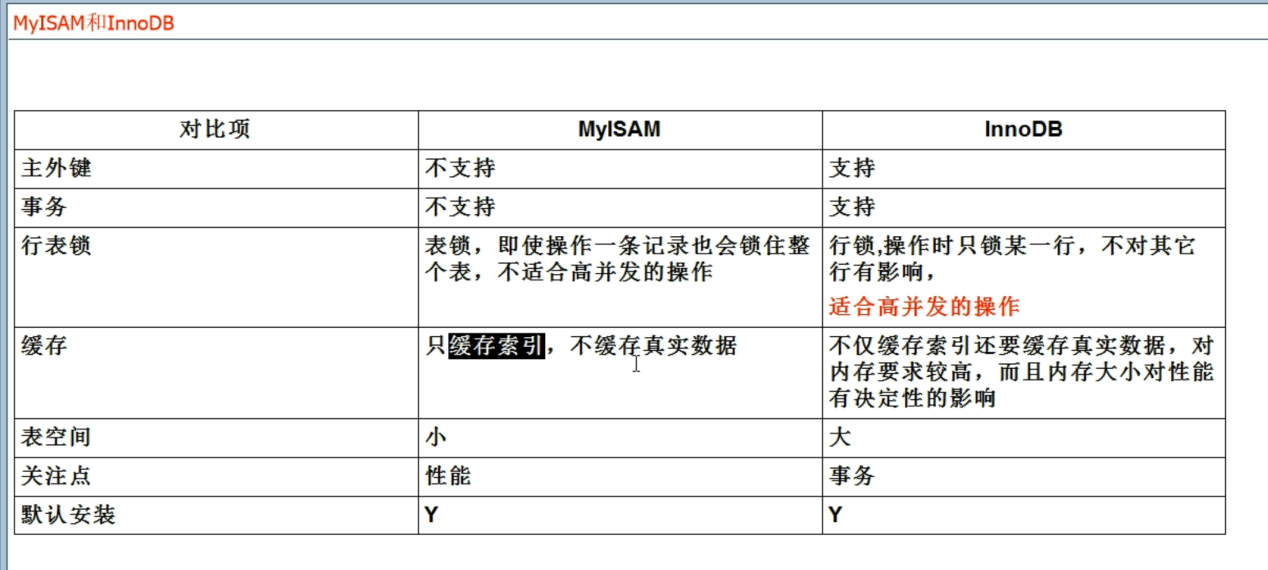


# MYSQL安装

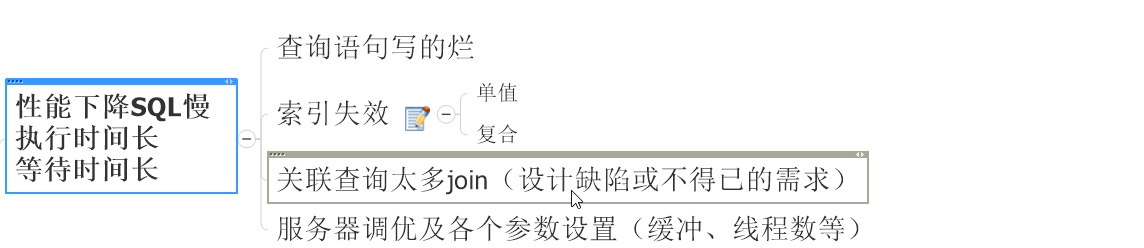


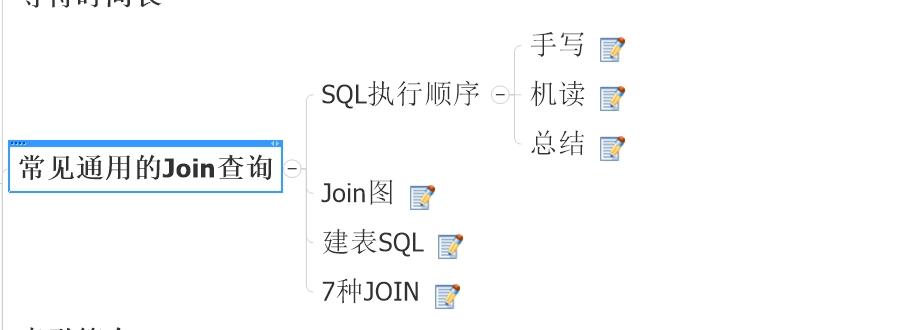
# 存储引擎

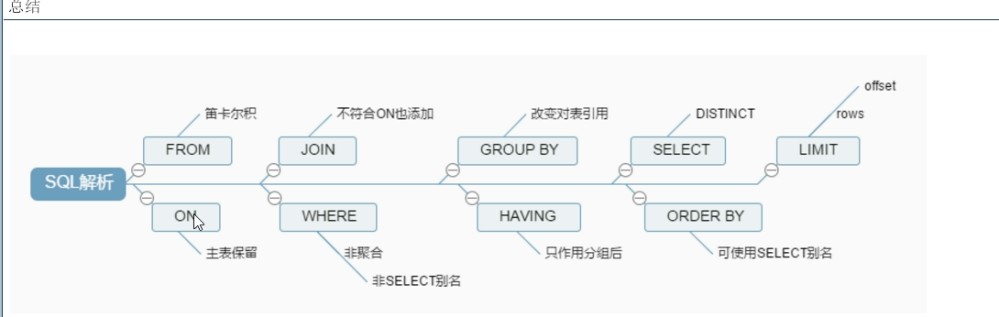
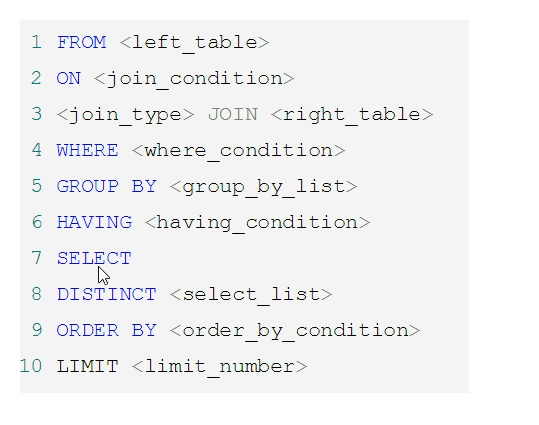




# 索引优化

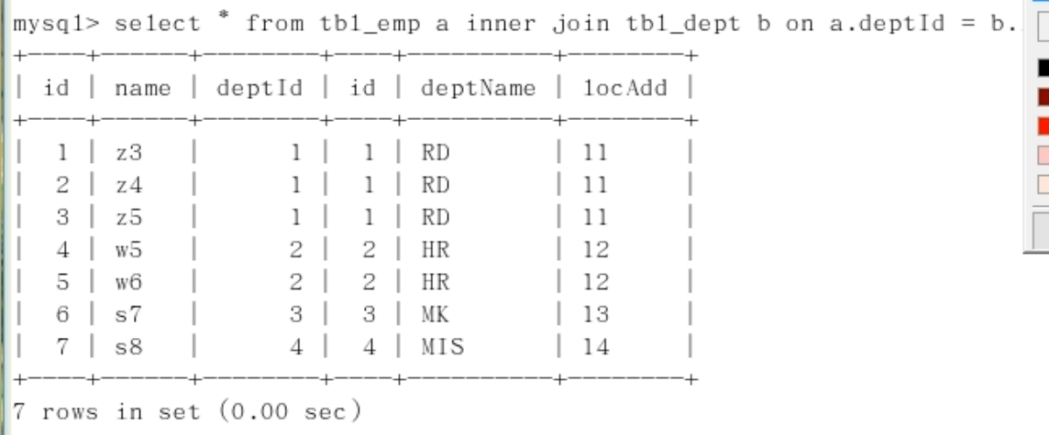




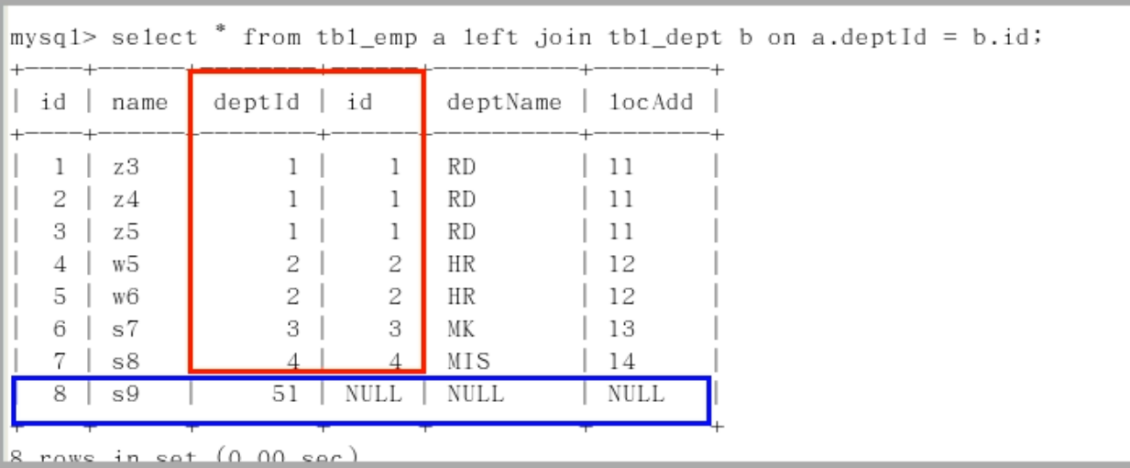


## Join

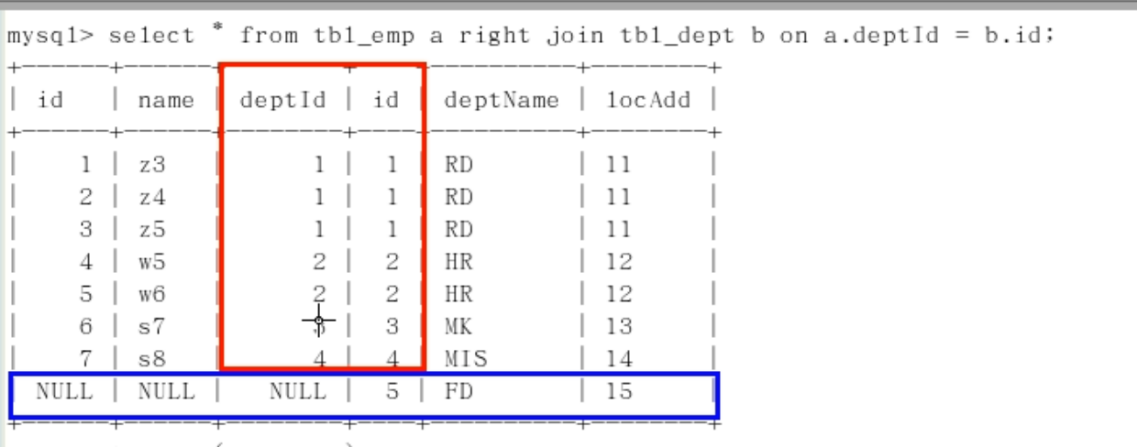
### 共有



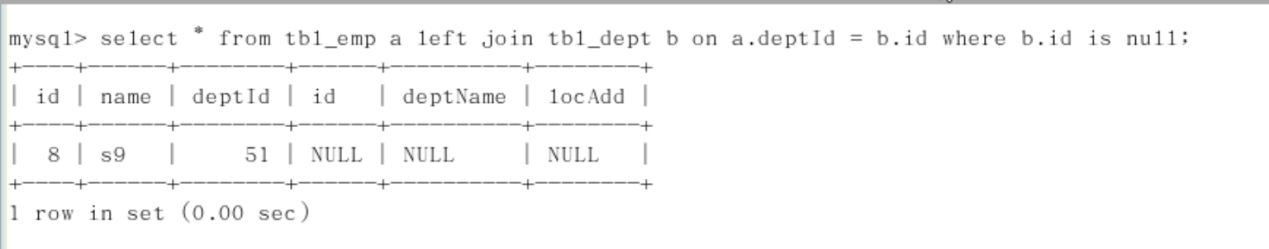
### a独有+公共



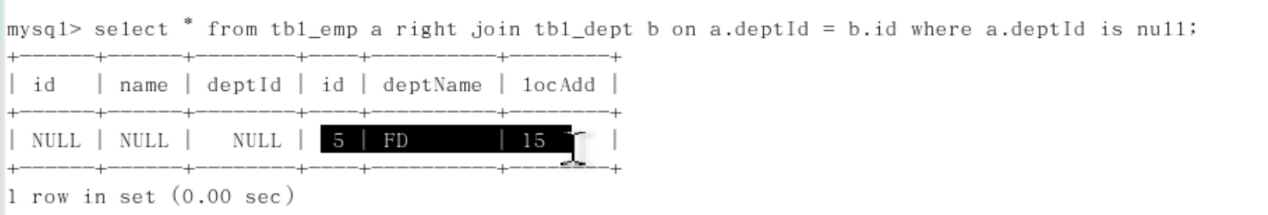
### b独有+公共



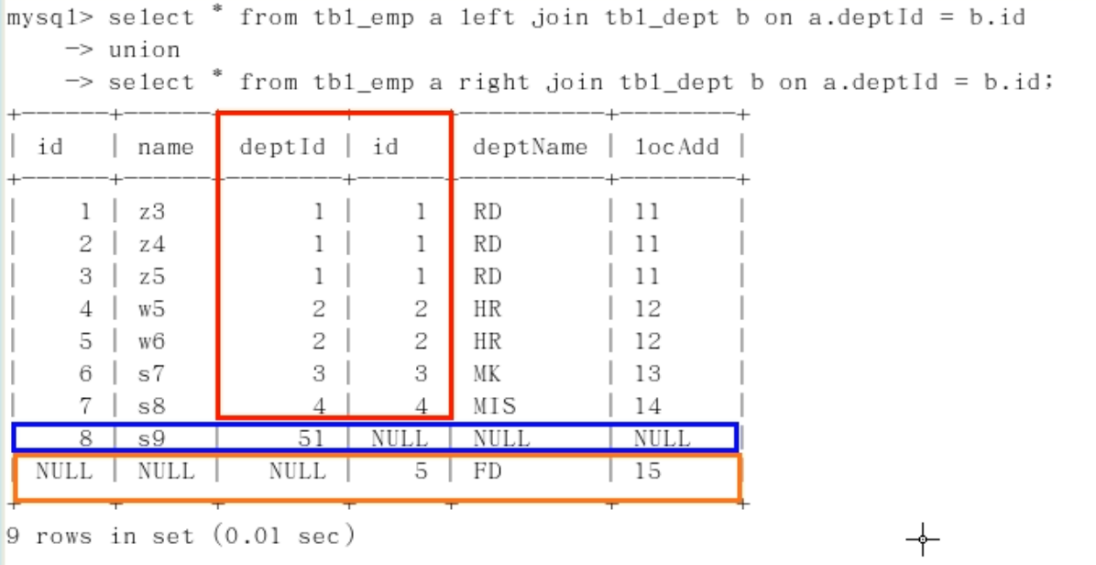
### a独有



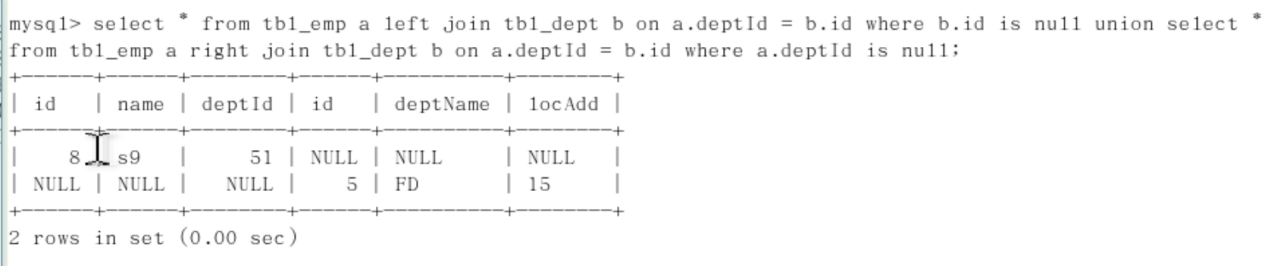
### b独有



### 都有



### a独有+b独有

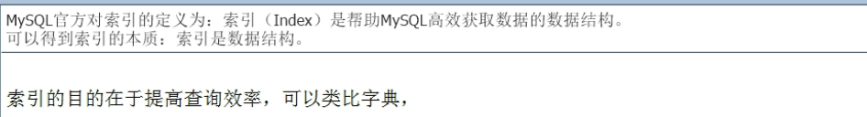


# 索引

## 目录

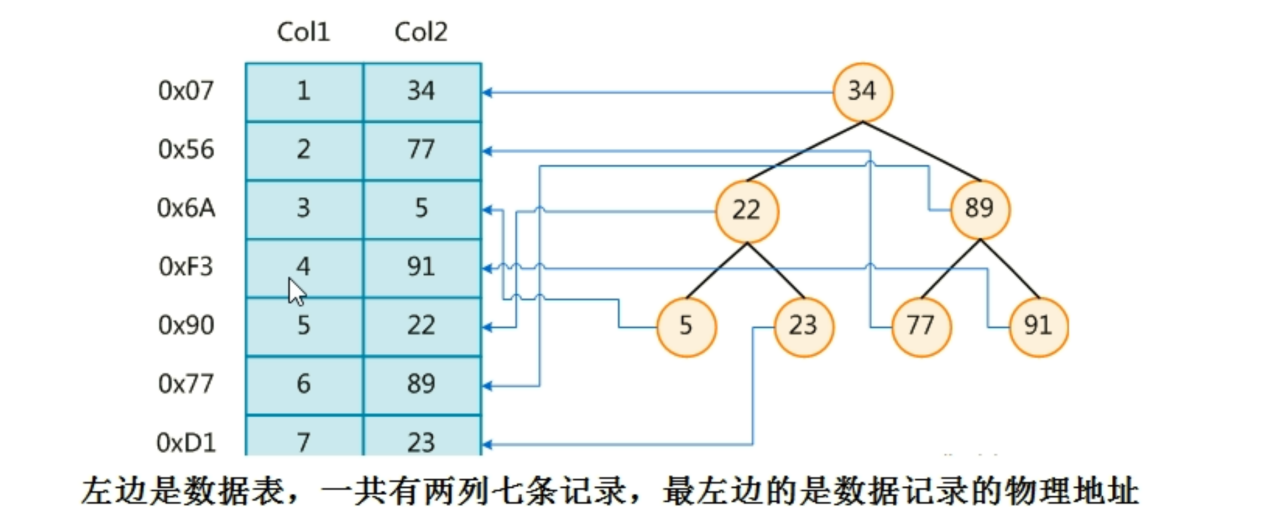


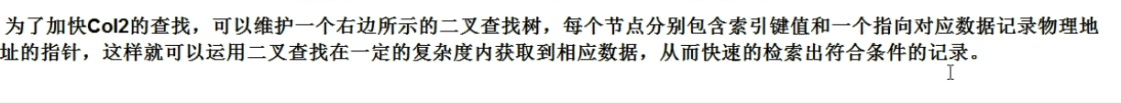
## 定义



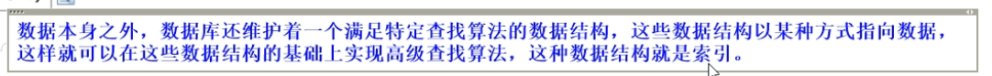


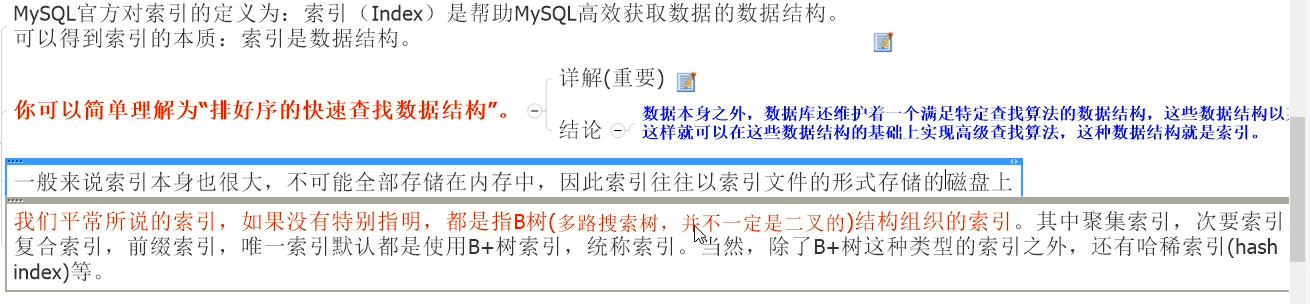
## 结构



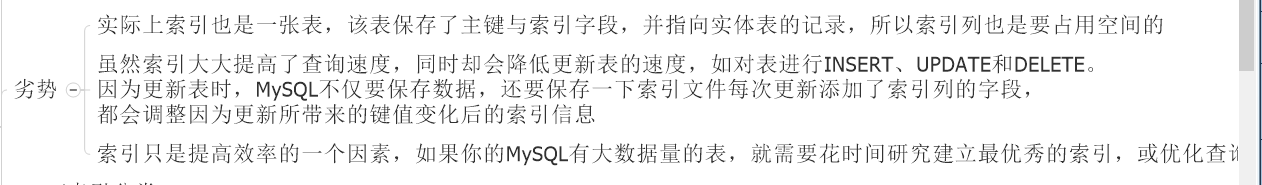
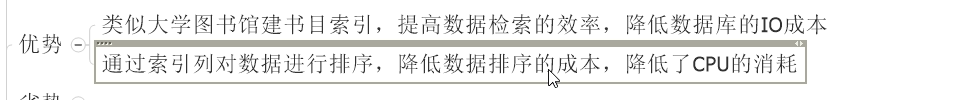


## 理解

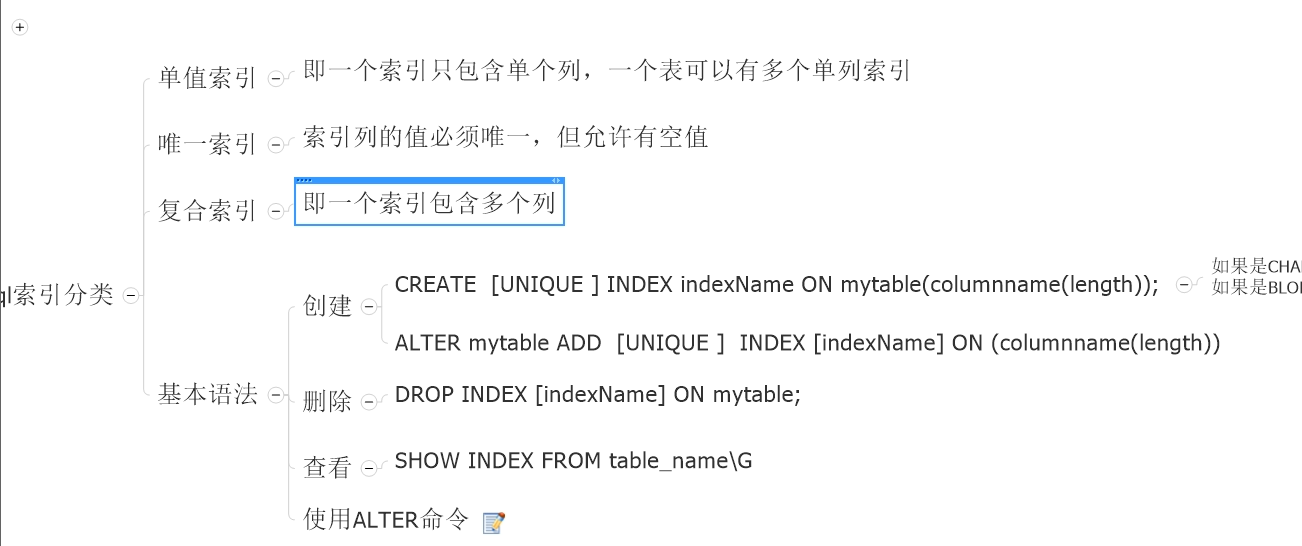




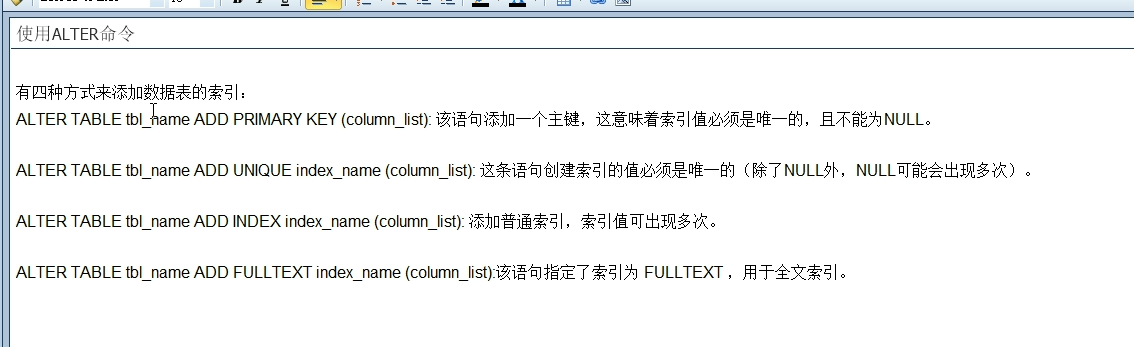
## 索引优劣



## 索引分类

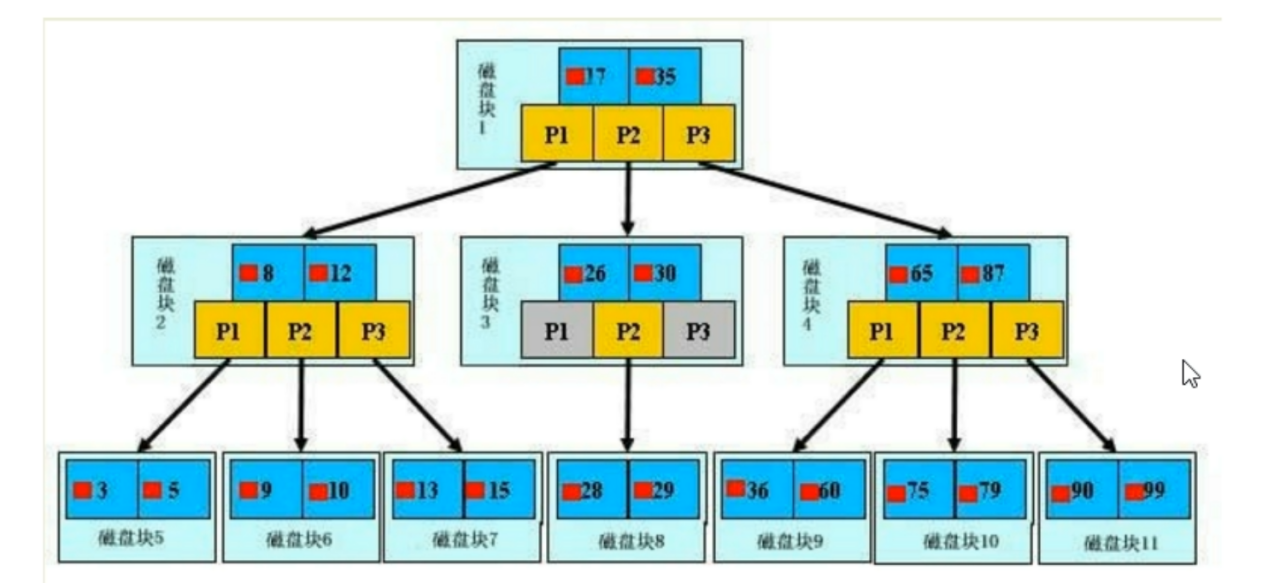


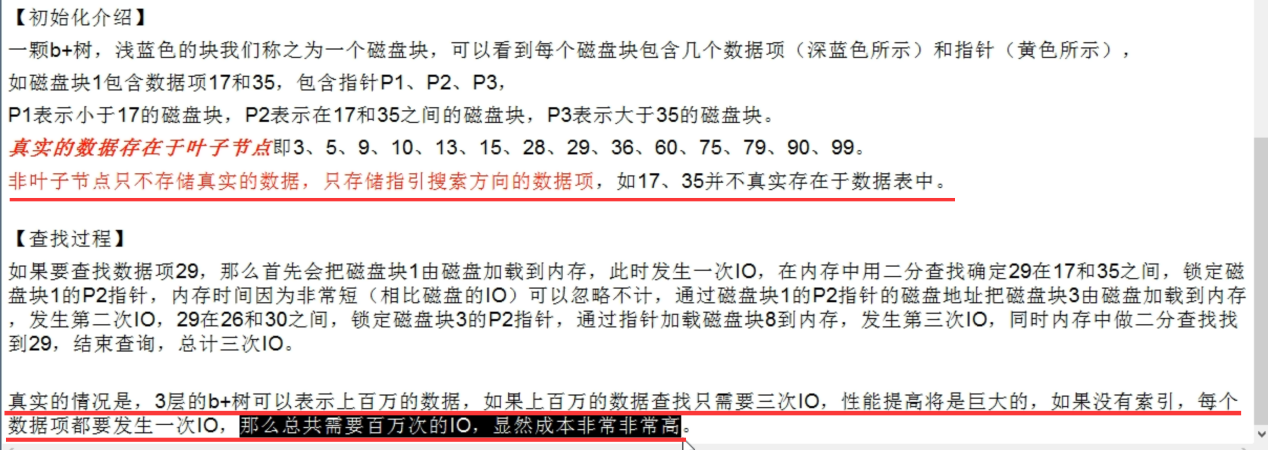
主键唯一普通全文



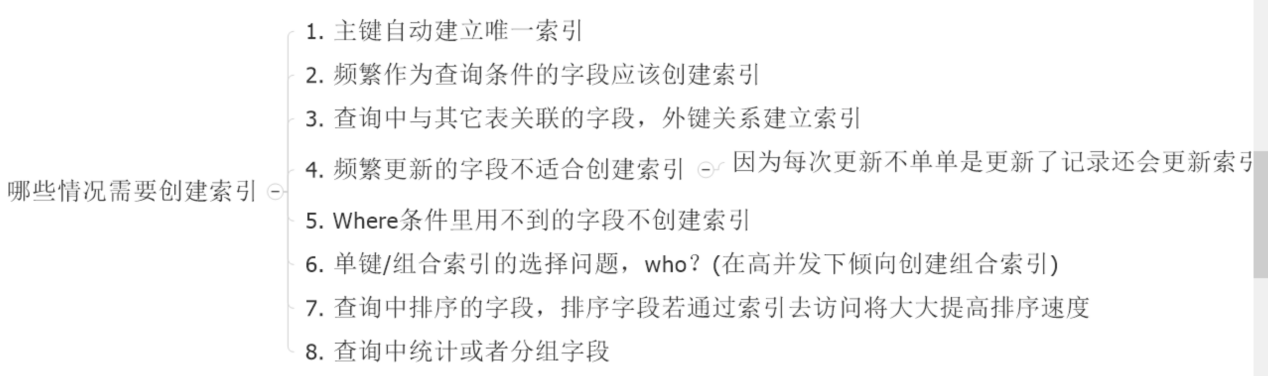
## 索引结构



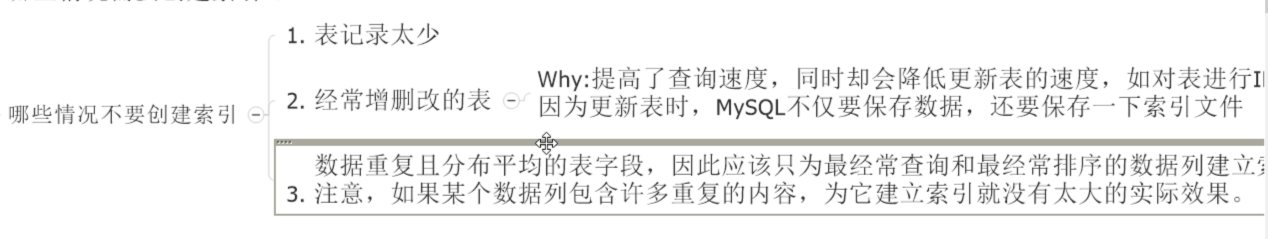




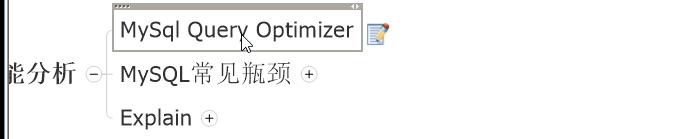
## 建立情况



## 不需要索引



## 性能分析

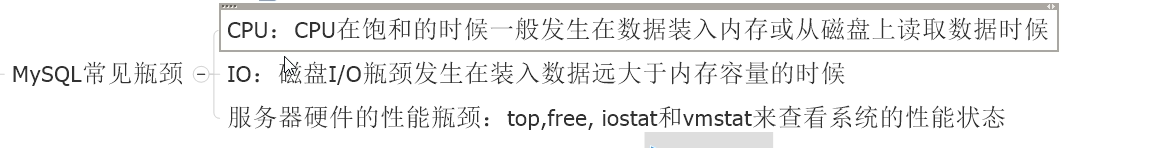


### Mysql query optimizer

本身的mysql查询优化器



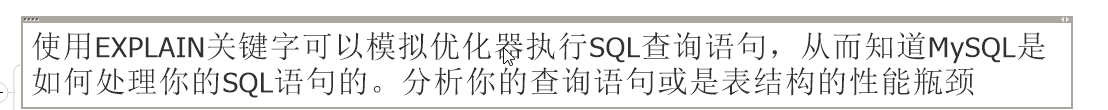
### 常见瓶颈

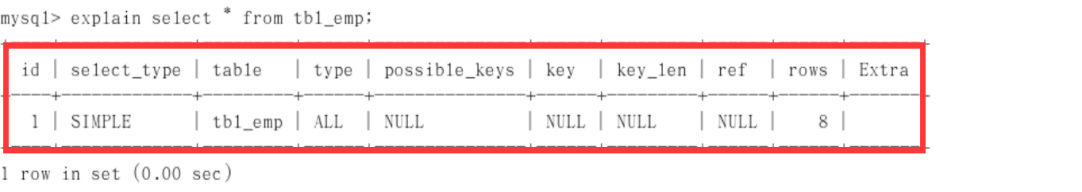


### explain

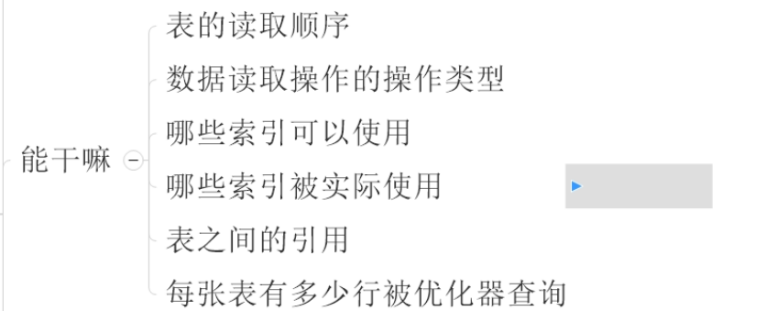
# Explain

## 基本

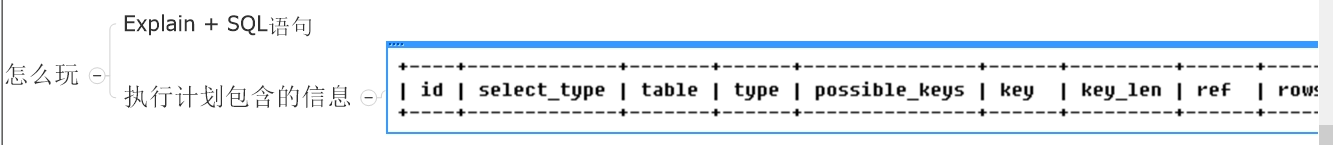




## explain作用

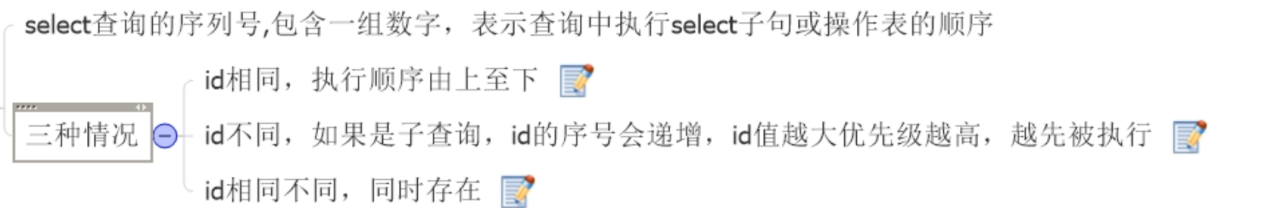


## 怎么用

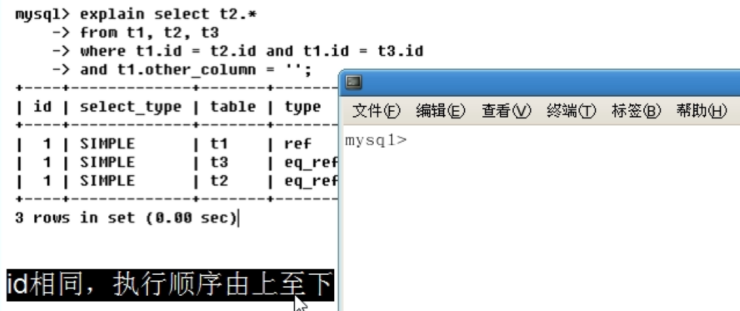


## 字段

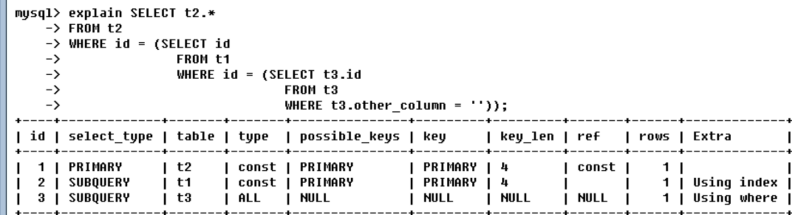
### Id



#### 案例：id一样



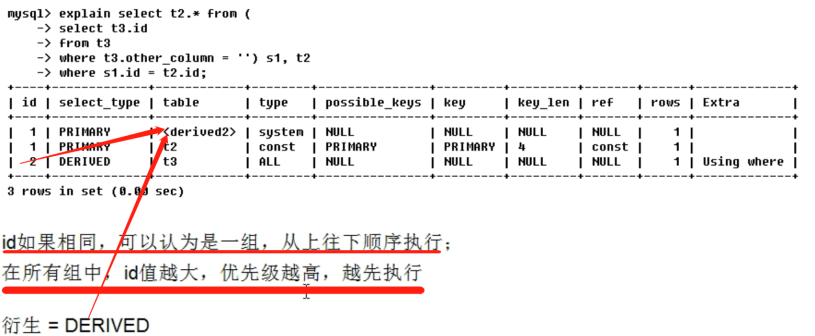
#### 案例：id不一样



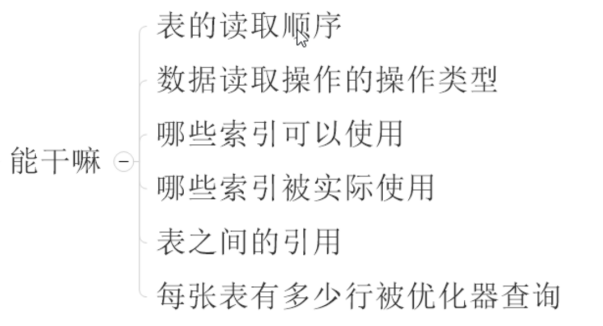


最内的先执行

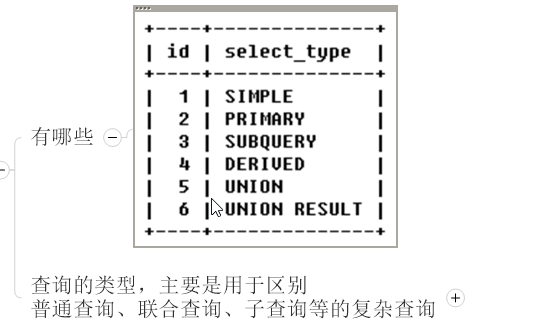
#### 案例：id有形同有不同

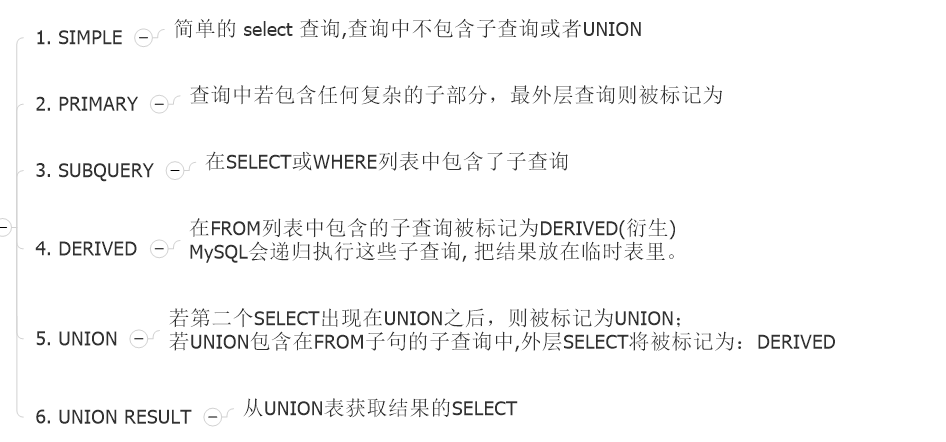


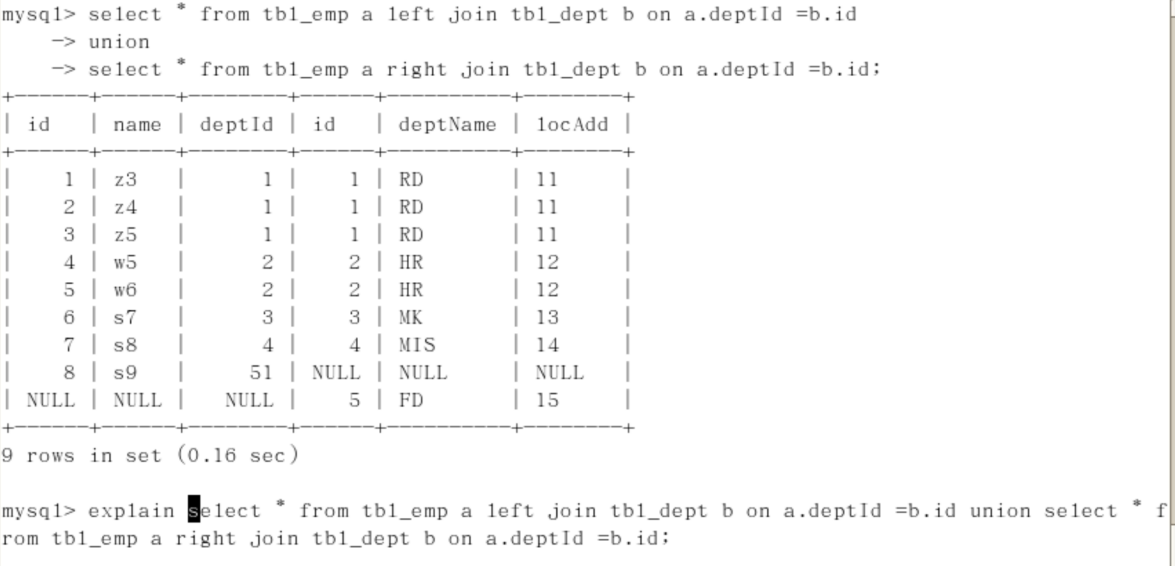
#### 能干嘛



### Select\_type







### Table



### Type

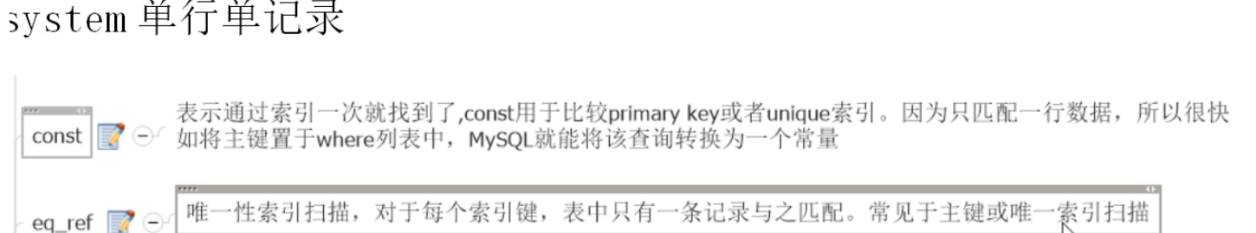
#### 简介

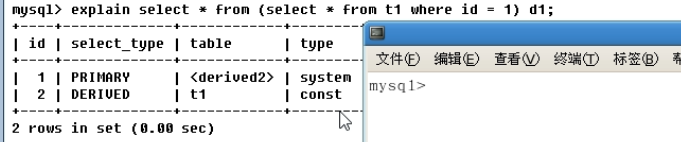


#### system

也属于const

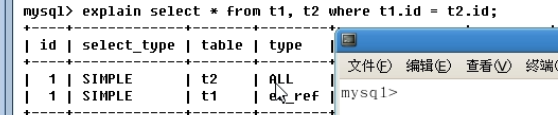
#### Const





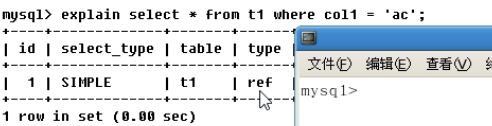
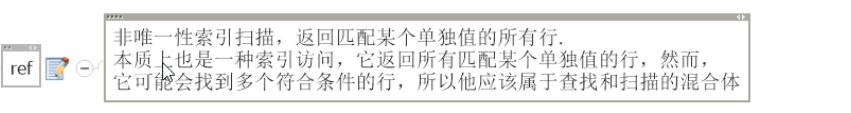
已有一行数据的就是这种const

#### eq\_ref



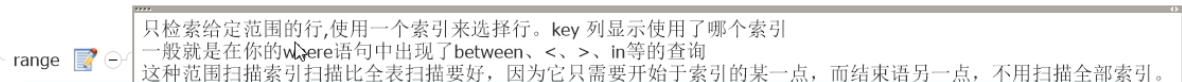
一对一就是eq\_ref

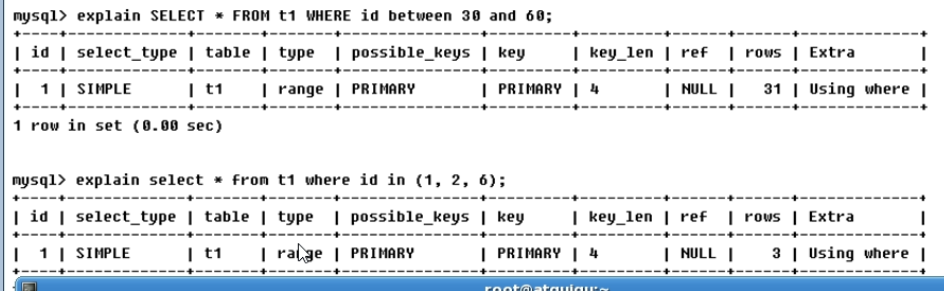
#### ref



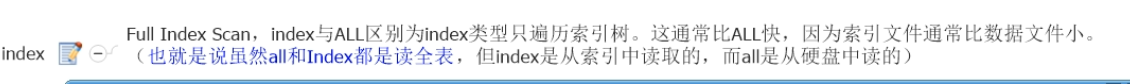
一对多形式的

#### range



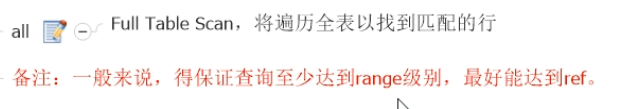


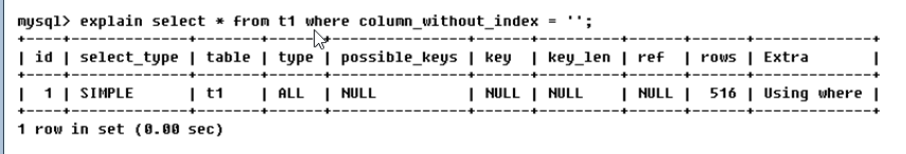
#### Index



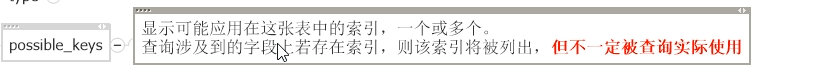


#### All



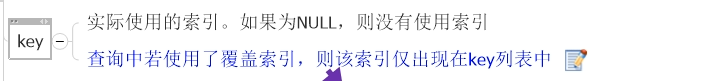


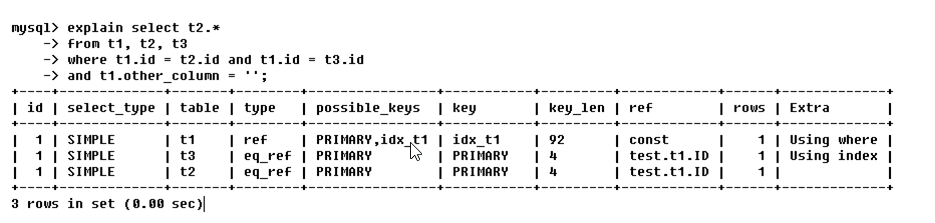
### Possible\_keys



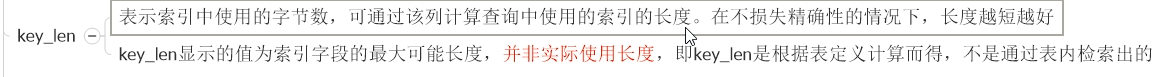
Possible\_key是一共的多有设置的字段 key是用到的

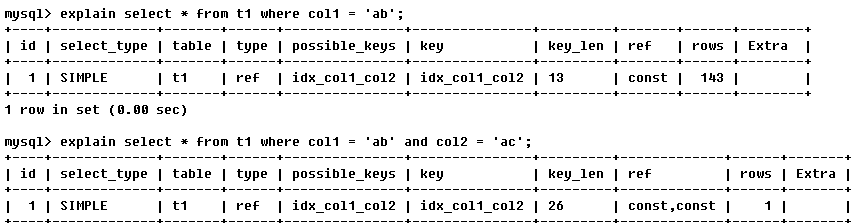
### Key





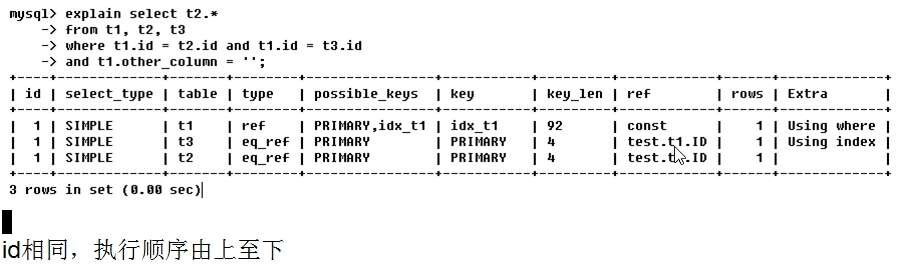
### key\_len

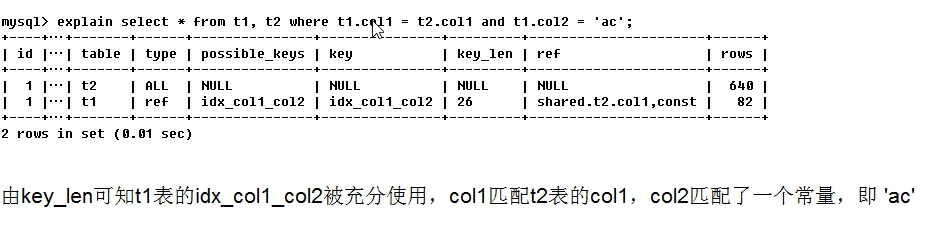




### Ref

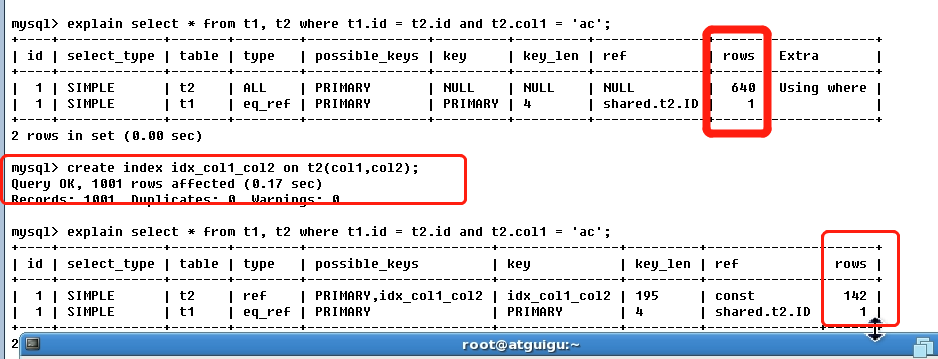






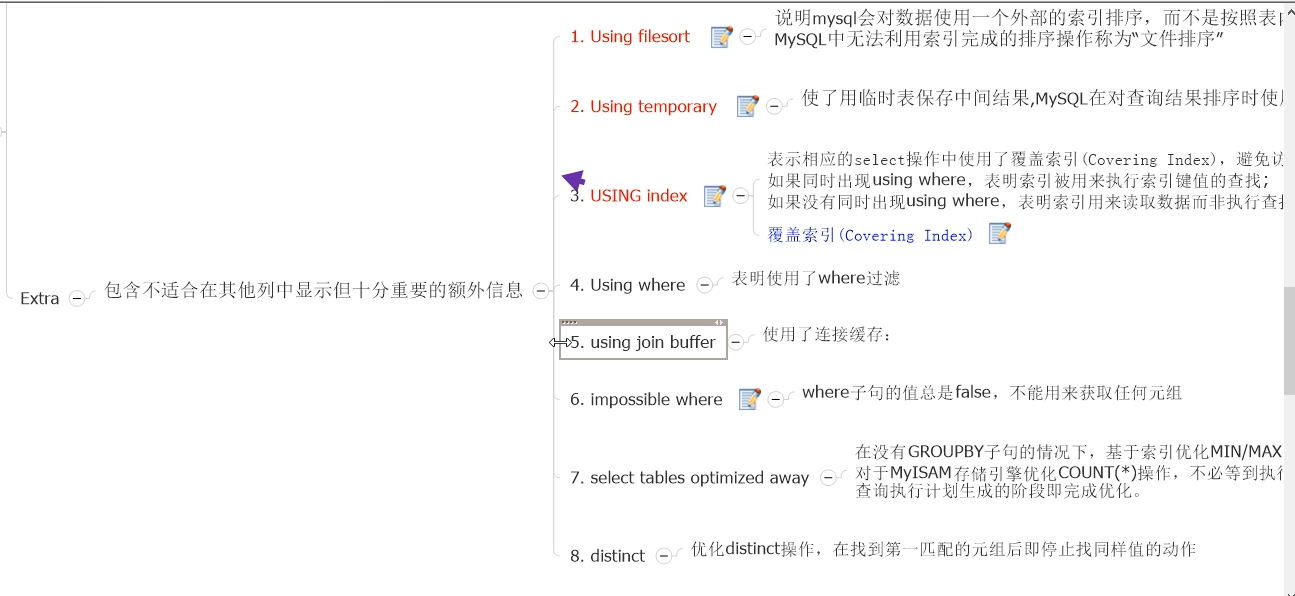
### Rows





### Extra





### 总结

Id type key rows最重要