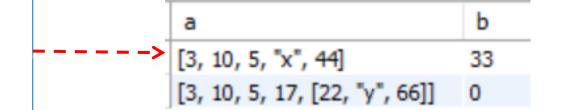
# MySQL中的JSON数据类型

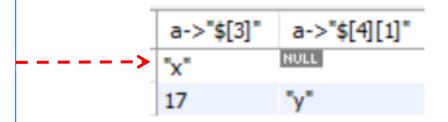
create table testJSON (a json, b int)

insert into testJSON values



**select** a->"**\$**[3]", a->"**\$**[4][1]"

from testJSON;



# JSON的检索操作

```
create table user (
       id int not null primary key auto_increment,
       info json);
insert into user(info) values (
       '{"name":"wangming",
       "age":18,
       "address":{"province":"sichuan","city":"chengdu"},
       "hobby" :["sing", "dance"]}');
```

```
"age": 18,
    "name": "wangming",
    "hobby": [
        "sing",
        "dance"
],
    "address": {
        "city": "chengdu",
        "province": "sichuan"
}
}
```

### JSON的检索操作

json\_extract ( json\_doc, path[, path] ... )

```
select json_extract ( '[10, 20, [30, 40]]', '$[2][*]' ); -----> json_extract('[10, 20, [30, 40]]', '$[2][*]') [30, 40]
```

```
select json_extract (info, '$.name', '$.hobby')
from user;

| json_extract(info, '$.name', '$.hobby')
| ["wangming", ["sing", "dance"]]
```

#### 将JSON展开为平面表

json\_table( expr, path columns (column\_list) )

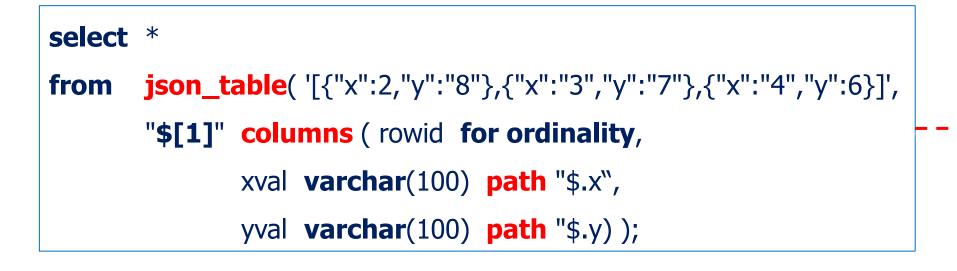
```
select *
       json_table( '[{"a":"3"},{"a":2},{"b":1},{"a":0},{"a":[1,2]}]',
from
       "$[*]" columns (rowid for ordinality,
              ac varchar(100) path "$.a" default '111' on empty default '999' on error,
               aj json path "$.a" default '{"x": 333}' on empty,
               bx int exists path "$.b") ) as tt;
                                     rowid
                                                      bx
```

111

{"x": 333}

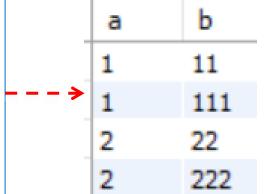
### 将JSON展开为平面表

xval



# 将JSON展开为平面表:数组的Unwind操作

```
select *
from json_table('[ {"a": 1, "b": [11,111]}, {"a": 2, "b": [22,222]}, {"a":3}]',
       "$[*]"
               columns(
               a int path '$.a',
               nested path '$.b[*]' columns (b int path '$')
               ) ) as jt
where b is not null;
```



### 将平面表转为JSON

sname	cname	score
张三	数学	96
张三	语文	99
李四	数学	98
李四	语文	88

```
"cname": "数学",
"score": 96,
"sname": "张干"
"cname": "语文",
"score": 99,
"sname": "张王"
"cname": "数学",
"score": 98,
"sname": "李四"
"cname": "语文",
"score": 88,
"sname": "李四"
```