


# -With

`goframegoframegoframeORMBelongsTo, HasOne, HasMany, ManyToManyScanListWith -  
ScanList  
ScanListWithWithScanList  
aries`



Withgoframe v1.15.7

WithScanList

## 1

```
#  
CREATE TABLE `user` (  
  id int(10) unsigned NOT NULL AUTO_INCREMENT,  
  name varchar(45) NOT NULL,  
  PRIMARY KEY (id)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;  
  
#  
CREATE TABLE `user_detail` (  
  uid int(10) unsigned NOT NULL AUTO_INCREMENT,  
  address varchar(45) NOT NULL,  
  PRIMARY KEY (uid)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;  
  
#  
CREATE TABLE `user_scores` (  
  id int(10) unsigned NOT NULL AUTO_INCREMENT,  
  uid int(10) unsigned NOT NULL,  
  score int(10) unsigned NOT NULL,  
  PRIMARY KEY (id)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

## 2

1. 1:1

2. 1:N

3. N:N1:N1:N
- Golang

Content Menu

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•

◦ 1

◦ 2

◦ 3

◦ 4

◦ 5

•

◦ 1gmeta

◦ 2

◦ 3With/WithAll

▪ 1

▪ 2

▪ 3

▪ 4

•

◦ 1

◦ 2

•

```
//
type UserDetails struct {
    gmeta.Meta `orm:"table:user_detail"`
    Uid        int    `json:"uid"`
    Address    string `json:"address"`
}
//
type UserScores struct {
    gmeta.Meta `orm:"table:user_scores"`
    Id         int    `json:"id"`
    Uid        int    `json:"uid"`
    Score      int    `json:"score"`
}
//
type User struct {
    gmeta.Meta `orm:"table:user"`
    Id         int    `json:"id"`
    Name       string `json:"name"`
    UserDetails *UserDetails `orm:"with:uid=id"`
    UserScores []*UserScores `orm:"with:uid=id"`
}
```

### 3

5

- id1-5name\_lname\_5
- 5address\_laddress\_5
- 5l-5

```
db.Transaction(func(tx *gdb.TX) error {
    for i := 1; i <= 5; i++ {
        // User.
        user := User{
            Name: fmt.Sprintf(`name_%d`, i),
        }
        lastInsertId, err := db.Model(user).Data(user).OmitEmpty().
InsertAndGetId()
        if err != nil {
            return err
        }
        // Detail.
        userDetails := UserDetails{
            Uid:        int(lastInsertId),
            Address:    fmt.Sprintf(`address_%d`, lastInsertId),
        }
        _, err = db.Model(userDetails).Data(userDetails).OmitEmpty().
Insert()
        if err != nil {
            return err
        }
        // Scores.
        for j := 1; j <= 5; j++ {
            userScore := UserScore{
                Uid:    int(lastInsertId),
                Score: j,
            }
            _, err = db.Model(userScore).Data(userScore).
OmitEmpty().Insert()
            if err != nil {
                return err
            }
        }
    }
    return nil
})
```

```
mysql> show tables;
+-----+
| Tables_in_test |
+-----+
| user            |
| user_detail     |
| user_score      |
+-----+
3 rows in set (0.01 sec)
```

```
mysql> select * from `user`;
+----+-----+
| id | name  |
+----+-----+
| 1  | name_1 |
| 2  | name_2 |
| 3  | name_3 |
| 4  | name_4 |
| 5  | name_5 |
+----+-----+
5 rows in set (0.01 sec)
```

```
mysql> select * from `user_detail`;
+----+-----+
| uid | address |
+----+-----+
| 1  | address_1 |
| 2  | address_2 |
| 3  | address_3 |
| 4  | address_4 |
| 5  | address_5 |
+----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from `user_score`;
+----+-----+
| id | uid | score |
+----+-----+
| 1  | 1  | 1  |
| 2  | 1  | 2  |
| 3  | 1  | 3  |
| 4  | 1  | 4  |
| 5  | 1  | 5  |
| 6  | 2  | 1  |
| 7  | 2  | 2  |
| 8  | 2  | 3  |
| 9  | 2  | 4  |
| 10 | 2  | 5  |
| 11 | 3  | 1  |
| 12 | 3  | 2  |
| 13 | 3  | 3  |
| 14 | 3  | 4  |
| 15 | 3  | 5  |
| 16 | 4  | 1  |
| 17 | 4  | 2  |
| 18 | 4  | 3  |
| 19 | 4  | 4  |
| 20 | 4  | 5  |
| 21 | 5  | 1  |
| 22 | 5  | 2  |
| 23 | 5  | 3  |
| 24 | 5  | 4  |
| 25 | 5  | 5  |
+----+-----+
25 rows in set (0.00 sec)
```

## 4

With

```
var user *User
db.Model(tableUser).WithAll().Where("id", 3).Scan(&user)
```

ID3SQL

```
2021-05-02 22:29:52.634 [DEBU] [ 2 ms] [default] SHOW FULL COLUMNS FROM
`user`
2021-05-02 22:29:52.635 [DEBU] [ 1 ms] [default] SELECT * FROM `user`
WHERE `id`=3 LIMIT 1
2021-05-02 22:29:52.636 [DEBU] [ 1 ms] [default] SHOW FULL COLUMNS FROM
`user_detail`
2021-05-02 22:29:52.637 [DEBU] [ 1 ms] [default] SELECT `uid`,`address`
FROM `user_detail` WHERE `uid`=3 LIMIT 1
2021-05-02 22:29:52.643 [DEBU] [ 6 ms] [default] SHOW FULL COLUMNS FROM
`user_score`
2021-05-02 22:29:52.644 [DEBU] [ 0 ms] [default] SELECT `id`,`uid`,
`score` FROM `user_score` WHERE `uid`=3
```

g.Dump(user)

```
{
  "id": 3,
  "name": "name_3",
  "UserDetail": {
    "uid": 3,
    "address": "address_3"
  },
  "UserScores": [
    {
      "id": 11,
      "uid": 3,
      "score": 1
    },
    {
      "id": 12,
      "uid": 3,
      "score": 2
    },
    {
      "id": 13,
      "uid": 3,
      "score": 3
    },
    {
      "id": 14,
      "uid": 3,
      "score": 4
    },
    {
      "id": 15,
      "uid": 3,
      "score": 5
    }
  ]
}
```

## 5

With

```
var users []*User
db.Model(users).With(UserDetail{}).Where("id>?", 3).Scan(&users)
```

```
g.Dump(users)
```

```
[
  {
    "id": 4,
    "name": "name_4",
    "UserDetail": {
      "uid": 4,
      "address": "address_4"
    },
    "UserScores": null
  },
  {
    "id": 5,
    "name": "name_5",
    "UserDetail": {
      "uid": 5,
      "address": "address_5"
    },
    "UserScores": null
  }
]
```

```
gmetaWithAllormwithModelstruct
```

## 1gmeta

```
embedgmeta.Meta
```

```
type UserDetail struct {
    gmeta.Meta `orm:"table:user_detail"`
    Uid        int    `json:"uid"`
    Address    string `json:"address"`
}
```

```
GoFramegmetagmetagmeta.Meta`orm:"table:user_detail"`gmeta
```

```
gmeta.Meta
```

## 2

```
type User struct {
    gmeta.Meta `orm:"table:user"`
    Id         int    `json:"id"`
    Name       string `json:"name"`
    UserDetail *UserDetail `orm:"with:uid=id"`
    UserScores []*UserScore `orm:"with:uid=id"`
}
```

```
ormormwithwith
```

```
with:=
```

```
with:UID=ID
with:Uid=Id
with:U_ID=id
```

```
with:uid
```

UserDetailuser\_detailUserScoresuser\_scoreUseruseriduserid

### 3With/WithAll

#### 1

ormwithORMWithWith/WithAll

- With
- WithAllwith

```
// With creates and returns an ORM model based on meta data of given
object.
// It also enables model association operations feature on given `object`.
// It can be called multiple times to add one or more objects to model and
enable
// their mode association operations feature.
// For example, if given struct definition:
// type User struct {
//     gmeta.Meta `orm:"table:user"`
//     Id         int         `json:"id"`
//     Name       string      `json:"name"`
//     UserDetail *UserDetail `orm:"with:uid=id"`
//     UserScores []*UserScores `orm:"with:uid=id"`
// }
// We can enable model association operations on attribute `UserDetail`
and `UserScores` by:
// db.With(User{}.UserDetail).With(User{}.UserDetail).Scan(xxx)
// Or:
// db.With(UserDetail{}).With(UserDetail{}).Scan(xxx)
// Or:
// db.With(UserDetail{}, UserDetail{}).Scan(xxx)
func (m *Model) With(objects ...interface{}) *Model

// WithAll enables model association operations on all objects that have
"with" tag in the struct.
func (m *Model) WithAll() *Model
```

WithAllUserormwithWithWithWithAll

```
var user *User
db.Model(tableUser).With(UserDetail{}, UserScore{}).Where("id", 3).Scan
(&user)
```

```
var user *User
db.Model(tableUser).With(User{}.UserDetail, User{}.UserScore).Where("id",
3).Scan(&user)
```

## 2

With

```
var user *User
db.Model(tableUser).With(UserDetail{}).Where("id", 3).Scan(&user)
```

```
var user *User
db.Model(tableUser).With(User{}.UserDetail).Where("id", 3).Scan(&user)
```

g.Dump(user)

```
{
  "id": 3,
  "name": "name_3",
  "UserDetail": {
    "uid": 3,
    "address": "address_3"
  },
  "UserScores": null
}
```

## 3

```
var user *User
db.Model(tableUser).With(UserScore{}).Where("id", 3).Scan(&user)
```

```
var user *User
db.Model(tableUser).With(User{}.UserScore).Where("id", 3).Scan(&user)
```

g.Dump(user)

```

{
  "id": 3,
  "name": "name_3",
  "UserDetail": null,
  "UserScores": [
    {
      "id": 11,
      "uid": 3,
      "score": 1
    },
    {
      "id": 12,
      "uid": 3,
      "score": 2
    },
    {
      "id": 13,
      "uid": 3,
      "score": 3
    },
    {
      "id": 14,
      "uid": 3,
      "score": 4
    },
    {
      "id": 15,
      "uid": 3,
      "score": 5
    }
  ]
}

```

## 4

```

var user *User
db.Model(tableUser).Where("id", 3).Scan(&user)

```

g.Dump(user)

```

{
  "id": 3,
  "name": "name_3",
  "UserDetail": null,
  "UserScores": null
}

```

## 1

SQLSELECT \*With

Withmodel

ContentCMS



```

type Content struct {
    Id      uint      `orm:"id,primary"    json:"id"
    // ID
    Key      string     `orm:"key"           json:"key"
    //
    Type      string     `orm:"type"          json:"type"
    // : topic, ask, article
    CategoryId uint     `orm:"category_id"   json:"category_id"
    // ID
    UserId    uint      `orm:"user_id"       json:"user_id"
    // ID
    Title     string    `orm:"title"         json:"title"
    //
    Content   string    `orm:"content"       json:"content"
    //
    Sort      uint      `orm:"sort"          json:"sort"
    //
    Brief     string    `orm:"brief"         json:"brief"
    //
    Thumb     string    `orm:"thumb"         json:"thumb"
    //
    Tags      string    `orm:"tags"          json:"tags"
    // JSON
    Referer   string    `orm:"referer"       json:"referer"
    // github/gitee
    Status    uint      `orm:"status"        json:"status"
    // 0: , 1:
    ReplyCount uint     `orm:"reply_count"   json:"reply_count"
    //
    ViewCount uint     `orm:"view_count"    json:"view_count"
    //
    ZanCount  uint     `orm:"zan_count"     json:"zan_count"
    //
    CaiCount  uint     `orm:"cai_count"     json:"cai_count"
    //
    CreatedAt *gtime.Time `orm:"created_at"    json:"created_at"
    //
    UpdatedAt *gtime.Time `orm:"updated_at"    json:"updated_at"
    //
}

```

Content

```

type ContentListItem struct {
    Id      uint      `json:"id"` // ID
    CategoryId uint     `json:"category_id"` // ID
    UserId   uint     `json:"user_id"` // ID
    Title    string   `json:"title"` //
    CreatedAt *gtime.Time `json:"created_at"` //
    UpdatedAt *gtime.Time `json:"updated_at"` //
}

```

## 2

WithSQLWith

- With

