**ＫＯＭ　ＡＰＰ后台系统设计**

2016年5月

**文档记录**

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| --- | --- | --- | --- |
| **版本号** | **日期** | **描述** | **修改人** |
| V0.1 | 2016/05/19 | 系统接口设计 |  |
| V0.2 | 2016/05/23 | 系统数据库/消息接口设计 |  |
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|  |  |  |  |

# 引言

## 编写目的

本文档提供了KOMAPP后台系统设计，涵盖接口设计，数据库设计等。

预期的读者：KOM APP后台系统开发人员、KOM APP开发人员等。

## 背景

* 软件产品：KOM APP后台系统
* 任务提出者：PMO
* 开发者：PMO
* 用户：各事业部非洲促销员

## 定义、缩写词、略语

|  |  |
| --- | --- |
| **缩写、术语** | **解释** |
| KOM | 关键门店管理 |
| IMEI | 国际移动设备标识 |

# 系统总体设计

# 系统接口设计

## 前端用户接口设计

前端接口采用基于RESTFUL接口, 使用HTTP/JSON传输和编解码, 有很好的集成性,可扩张性和高效率等特点。

#### 3.1.1. 获取系统信息

**1. 接口名:**

app/info

**2. 接口方法:**

HTTP GET

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| 无 |  |  |  |  |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| Ret | int(枚举) | 结果返回值 | 1:成功 2:系统异常 |
| server.date | string | 服务器日期 | 2016-03-25 |
| server.time | long | 服务器时间 | 1458875014146 |
| client\_version | string | kom app最新版本 | 4.0.56 |

**5. 举例**

request:

HTTP GET app/info

response:

{

"ret": 1,

"msg": "ok",

"data": {

"server": {

"date": "2016-03-25",

"time": "18917566621"

},

" client\_version": "4.0.56"

}

}

#### 3.1.2. 促销员登陆

**1. 接口名:**

passport/login

**2. 接口方法:**

HTTP POST

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| username | string | 必填 | 促销员登陆账号 | jack |
| password | string | 必填 | 促销员登陆密码 | jack\_123 |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| ret | int(枚举) | 登陆结果 | 1:成功2:系统异常3: 促销员不存在 4:密码不正确 |
| access\_token | string | 促销员登录token | 65432\_DFUYHKJKJ#^%FDF |
| region.name | string | 国家区域 | Ghana |
| region.currency | string | 国家货币 | GHS |

**5. 举例**

request:

HTTP POST passport/login

{

"data": {

"username ": "jack",

"password ": "jack\_123"

}

}

response:

{

"ret": 1,

"msg": "ok",

"data": {

"access\_token": "65432\_DFUYHKJKJ#^%FDF",

"region":

{

" name ": " Ghana ",

" currency ": " GHS "

}

}

}

#### 3.1.3. 获取促销员店铺

**1. 接口名:**

promoter/shops

**2. 接口方法:**

HTTP GET

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| access\_token | string | 必填 | 用户登录token | 65432\_DFUYHKJKJ#^%FDF |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| ret | int(枚举) | 结果返回值 | 1:成功 2:系统异常 |
| shop.name | string | 店铺名称 | A D PHONES |
| shop.code | string | 店铺代码 | NG0236 |

**5. 举例**

request:

HTTP GET promoter/shops?access\_token=65432\_DFUYHKJKJ#^%FDF

response:

{

"ret": 1,

"msg": "ok",

"data": {

"shop\_list": [

{

"name": "A D PHONES",

"code": " NG0236 "

}

]

}

}

#### 3.1.4. 获取所有品牌机型

**1. 接口名:**

brand/list

**2. 接口方法:**

HTTP GET

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| access\_token | string | 必填 | 用户登录token | 65432\_DFUYHKJKJ#^%FDF |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| ret | int(枚举) | 结果返回值 | 1:成功 2:系统异常 |
| brand.name | string | 品牌名称 | TECNO |
| brand.code | string | 品牌代码 | 355578076762562 |
| brand.is\_self | int(枚举) | 是否自有品牌 | 0:竞品 1:自有品牌 |
| serises.name | string | 系列名称 | SMART |
| serises.code | string | 系列代码 | SMART |
| model.name | string | 机型名称 | it5610 |
| model.code | string | 机型代码 | it5610 |

**5. 举例**

request:

HTTP GET brand/list?access\_token=65432\_DFUYHKJKJ#^%FDF

response:

{

"ret": 1,

"msg": "ok",

"data": {

"brand\_list": [

{

"name": "tecno",

"code": "tecno",

"is\_self ": "1",

"series\_list": [

{

"name": " SMART",

"code": " SMART",

"mode\_list": [

{

"name": " it5610",

"code": " it5610"

}

]

}

]

}

]

}

}

#### 3.1.5. 扫码验证

**1. 接口名:**

promoter/scan

**2. 接口方法:**

HTTP POST

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| access\_token | string | 必填 | 用户登录token | 65432\_DFUYHKJKJ#^%FDF |
| qr\_code | string | 必填 | 用于二维码扫描接口 |  |
| imei\_no | string | 必填 | 用于IMEI扫描接口 |  |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| ret | int(枚举) | 结果返回值 | 1:成功 2:系统异常 |
| mobile.brand\_code | string | 品牌代码 | 355578076762562 |
| mobile.model\_code | string | 机型代码 | Y2 |

**5. 举例**

request:

HTTP POST passport/login

{

"data": {

"access\_token ": "65432\_DFUYHKJKJ#^%FDF",

"qr\_code ": "",

"imei\_no ": "1234567809"

}

}

response:

{

"ret": 1,

"msg": "ok",

"data": {

"mobile ": [

{

"brand\_code ": "A D PHONES",

"model\_code ": " NG0236"

}

]

}

}

#### 3.1.6. 促销员销量上报

**1. 接口名:**

promoter/sales

**2. 接口方法:**

HTTP POST

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| access\_token | string | 必填 | 用户登录token | 65432\_DFUYHKJKJ#^%FDF |
| sale.sale\_date | string | 必填 | 销售日期 | 2016-03-23 |
| sale.shop\_code | string | 必填 | 店铺代码 | NG0236 |
| sale.client\_version | string | 必填 | kom app版本 | 4.0.55 |
| item.brand\_code | string | 必填 | 品牌代码 | 355578076762562 |
| item.model\_code | string | 必填 | 机型代码 | Y2 |
| item.imei\_code | string | 必填 | IMEI码 | 355578076762562 |
| item.qrcode\_code | string | 可选 | 二维码 |  |
| item.price | double | 必填 | 销售价格 | 14000.00 |
| Item.qty | Int | 必填 | 销售数量 | 1 |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| ret | int(枚举) | 结果返回值 | 1:成功 2:系统异常3:IMEI重复 4:二维码重复 5: access\_token失效 |

**5. 举例**

request:

HTTP POST promoter/sales

{

"data": {

"access\_token ": "65432\_DFUYHKJKJ#^%FDF",

"sale": {

"sale\_date":"2016-03-23",

"shop\_code":"NG0236",

"client\_version":"4.0.55"

"item\_list":[

{

" brand\_code ": "355578076762562",

" model\_code ": " Y2",

"imei\_no ": "1234567809"

"qr\_code ": "",

" price ": "14000.00",

" qty ": "1",

}

]

}

}

}

response:

{

"ret": 1,

"msg": "ok"

}

#### 3.1.7. 促销员销量查询

**1. 接口名:**

promoter/sales

**2. 接口方法:**

HTTP GET

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| access\_token | string | 必填 | 用户登录token | 65432\_DFUYHKJKJ#^%FDF |
| shop\_code | string | 必填 | 店铺代码 | NG0236 |
| brand\_code | string | 必填 | 品牌代码 | 355578076762562 |
| begin\_date | date | 必填 | 销售开始日期 | 2016-03-23 |
| end\_date | date | 必填 | 销售结束日期 | 2016-05-20 |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| ret | int(枚举) | 结果返回值 | 1:成功 2:系统异常3:IMEI重复 4:二维码重复 5: access\_token失效 |
| item.sale\_date | date | 销售日期 | 2016-03-23 |
| item.shop\_code | string | 店铺代码 | NG0236 |
| item.brand\_code | string | 品牌代码 | 355578076762562 |
| item.model\_code | string | 机型代码 | Y2 |
| Item.qty | int | 销售数量 | 1 |

**5. 举例**

request:

HTTP GET promoter/sales?access\_token=65432\_DFUYHKJKJ#^%FDF&shop\_code=NG0236&brand\_code=355578076762562&begin\_date=2016-03-23&end\_date=2016-05-20

response:

{

"ret": 1,

"msg": "ok",

"data": {

"item\_list": [

{

"sale\_date": "2016-03-23",

"shop\_code": "NG0236",

"brand\_code": "355578076762562",

"model\_code": "Y2",

"qty": "1"

}

]

}

}

#### 3.1.8. 促销员库存上报

**1. 接口名:**

promoter/stocks

**2. 接口方法:**

HTTP POST

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| access\_token | string | 必填 | 用户登录token | 65432\_DFUYHKJKJ#^%FDF |
| stock.stock\_date | date | 必填 | 库存日期 | 2016-03-23 |
| stock.shop\_code | string | 必填 | 店铺代码 | NG0236 |
| stock.client\_version | string | 必填 | 手机版本 | 4.0.55 |
| item.brand\_code | string | 必填 | 品牌代码 | 355578076762562 |
| item.model\_code | string | 必填 | 机型代码 | Y2 |
| Item.qty | int | 必填 | 库存数量 | 1 |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| ret | int(枚举) | 结果返回值 | 1:成功 2:系统异常3:IMEI重复 4:二维码重复 5: access\_token失效 |

**5. 举例**

request:

HTTP POST promoter/stocks

{

"data": {

"access\_token ": "65432\_DFUYHKJKJ#^%FDF",

"stock": {

"stock\_date":"2016-03-23",

"shop\_code":"NG0236",

"client\_version":"4.0.55"

"item\_list":[

{

" brand\_code ": "355578076762562",

" model\_code ": " Y2",

" qty ": "1",

}

]

}

}

}

response:

{

"ret": 1,

"msg": "ok"

}

#### 3.1.9. 促销员库存上报查询

**1. 接口名:**

promoter/stocks

**2. 接口方法:**

HTTP GET

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| access\_token | string | 必填 | 用户登录token | 65432\_DFUYHKJKJ#^%FDF |
| shop\_code | string | 必填 | 店铺代码 | NG0236 |
| brand\_code | string | 必填 | 品牌代码 | 355578076762562 |
| model\_code | string | 必填 | 机型代码 | 355578076762562 |
| begin\_date | date | 必填 | 库存开始日期 | 2016-03-23 |
| end\_date | date | 必填 | 库存结束日期 | 2016-05-20 |

**4. response参数:**

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| ret | int(枚举) | 结果返回值 | 1:成功 2:系统异常3:IMEI重复 4:二维码重复 5: access\_token失效 |
| item.stock\_date | date | 库存日期 | 2016-03-23 |
| item.shop\_code | string | 店铺代码 | NG0236 |
| item.brand\_code | string | 品牌代码 | 355578076762562 |
| item.model\_code | string | 机型代码 | Y2 |
| Item.qty | int | 库存数量 | 1 |

**5. 举例**

request:

HTTP GET promoter/stocks?access\_token=65432\_DFUYHKJKJ#^%FDF&shop\_code=NG0236&brand\_code=355578076762562&model\_code=355578076762562&begin\_date=2016-03-23&end\_date=2016-05-20

response:

{

"ret": 1,

"msg": "ok",

"data": {

"item\_list": [

{

"stock\_date": "2016-03-23",

"shop\_code": "NG0236",

"brand\_code": "355578076762562",

"model\_code": "Y2",

"qty": "1"

}

]

}

}

## 系统集成接口设计

#### 3.2.1. 上传销量消息接口

**1. 接口名:**

JMSService:: sendMessage

**2. 接口方法:**

JMSService:: sendMessage

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| method | string | 必填 | 方法名 | saveTShopSales |
| shopSales | TShopSales | 必填 | 销量对象 |  |
| shopSaleItem | List< TShopSaleItem > | 必填 | 销量明细对象 |  |

**4. response参数:**

无

**5. 举例**

request:

HashMap messages = new HashMap();

messages.put("method", "saveTShopSales");

messages.put("shopSales", tShopSales);

messages.put("shopSaleItem", tShopSaleItemList);

jmsService.sendMessage(messages);

response:

无

#### 3.2.2. 上传库存消息接口

**1. 接口名:**

JMSService:: sendMessage

**2. 接口方法:**

JMSService:: sendMessage

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| method | string | 必填 | 方法名 | insertShopStock |
| stockMain | TShopStockMain | 必填 | 库存对象 |  |
| stockDetails | List< TShopStockDetail > | 必填 | 库存明细对象 |  |

**4. response参数:**

无

**5. 举例**

request:

HashMap messages = new HashMap();

messages.put("method", "insertShopStock");

messages.put("stockMain", stockMain);

messages.put("stockDetails", stockDetails);

jmsService.sendMessage(messages);

response:

无

#### 3.2.3. 查询Imei设备信息

**1. 接口名:**

http://open.af1225.com/api/komByImei

**2. 接口方法:**

HTTP GET

**3. reqeust参数:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 参数名 | 类型 | 是否必填 | 说明 | 举例 |
| imei | string | 必填 | IMEI | 355578076762562 |
| check | string | 必填 | MD5(imei+”063c02f983da93704bab4280098e4c51”) |  |

**4. response参数:**

成功响应:

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| type | string | 设备信息类型 | p |
| imeis | string | IMEI列表 | ["123456756002305","123456756002313"] |
| date | string | 生产日期 | 2014-06-27 |
| model | string | 机型名称 | N9 |
| brand | string | 品牌 | INFINIX |
| color | string | 颜色 | Green |
| facotryCN | string | 工厂 | 北山 |
| facotryEN | string | 工厂英文名称 | beishan |
| cpuid | string | cpuid | 9590BB0F469026605E7DCD3D33969885 |
| saleDate | string | 销售时间 | 2014-07-01 |
| vc | string | VC码 | 738055 |

失败响应:

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名 | 类型 | 说明 | 举例 |
| code | int(枚举) | 结果返回值 | 1:参数错误 3:找不到设备 5:其它错误 |
| desc | string | 状态描述 | other error |

**5. 举例**

request:

[http://open.af1225.com/api/komByImei?imei=357262073018868&check=2693d21295a6e8254e5af3d75588ac10](http://172.17.2.148:8080/TecnoOpen/api/komByImei?imei=123456756002123&check=cb5995e08ab0c1ae05c98201363aef9c)

response:

{

"imeis":["357262073018868","357262073018876"],

"cpuid":"9590BB0F469026605E7DCD3D33969885",

"saleDate":"2016-04-13",

"vc":"738055",

"model":"C8",

"color":"[A3]Midnight Black",

"brand":"TECNO",

"facotryEN":"TaiHengNuo Factory",

"facotryCN":"泰衡诺",

"date":"2016-02-01",

"type":"p"

}

request:

[http://open.af1225.com/api/komByImei?imei=123456756002123&check=cb5995e08ab0c1ae05c98201363aef9c](http://172.17.2.148:8080/TecnoOpen/api/komByImei?imei=123456756002123&check=cb5995e08ab0c1ae05c98201363aef9c)

response:

{

"desc":"other error","code":"5"}

}

# 系统数据库设计

## 表结构设计

#### 4.1.1. 促销员信息

**1. 促销员实体关系:**



**2. 促销员表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **DT\_PV\_USERS** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK | 公司ID号 |
| USER\_ID | NUMBER(8,0) | No |  | PK | 用户ID号 |
| ORG\_ID | NUMBER(8,0) | No |  |  | 组织ID号 |
| DUTY\_ID | NUMBER(8,0) | No |  |  | 用户名称 |
| EMP\_ID | NUMBER(8,0) | No |  |  | 职员ID号 |
| USER\_CODE | VARCHAR2(32 BYTE) | No |  |  | 用户代码 |
| USER\_NAME | VARCHAR2(64 CHAR) | Yes |  |  | 用户名 |
| USER\_CATEGORY | NUMBER(8,0) | Yes |  |  | 用户类型 |
| FORBIDDEN\_TIME | TIMESTAMP(6) | Yes |  |  | 禁用时间 |
| PASSWORD | VARCHAR2(128 BYTE) | Yes |  |  | 登录密码 |
| PWD\_UPDATED\_DATE | TIMESTAMP(6) | Yes |  |  | 密码更新时间 |
| BAIL\_AMOUNT | NUMBER(8,0) | Yes |  |  | 担保额度 |
| DISCOUNT\_MODE | VARCHAR2(8 BYTE) | Yes |  |  | 优惠模式 |
| FIXED\_WORKSTATION | VARCHAR2(8 BYTE) | Yes |  |  | 固定工位 |
| MAN\_HOURS\_FACTOR | NUMBER(6,2) | Yes |  |  | 工时系数 |
| GROUP\_CODE | VARCHAR2(8 BYTE) | Yes |  |  | 班组代码 |
| LOGIN\_TIMES | NUMBER(8,0) | Yes |  |  | 登录次数 |
| LAST\_LOGIN\_TIME | TIMESTAMP(6) | Yes |  |  | 最后登录时间 |
| IS\_ONLINE | NUMBER(1,0) | Yes | 0 |  | 是否在线 |
| IS\_INACTIVE | NUMBER(1,0) | Yes | 0 |  | 是否停用 |
| REMARK | VARCHAR2(512 CHAR) | Yes |  |  | 备注-512 |
| CREATED\_BY | NUMBER(8,0) | Yes |  |  | 创建者 |
| CREATED\_TIME | TIMESTAMP(6) | Yes |  |  | 创建时间 |
| UPDATED\_BY | NUMBER(8,0) | Yes |  |  | 更新者 |
| UPDATED\_TIME | TIMESTAMP(6) | Yes |  |  | 更新时间 |
| VERSION | NUMBER(8,0) | Yes | 0 |  | 数据版本 |

**3. 权限表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **DT\_PV\_OPTION** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK | 公司ID |
| OPTION\_ID | NUMBER(8,0) | No |  | PK | 选项ID |
| PARENT\_OPTION\_ID | NUMBER(8,0) | Yes |  |  | 上一级选项ID |
| OPTION\_NAME | VARCHAR2(128 CHAR) | Yes |  |  | 选项名称 |
| OPTION\_DESC | VARCHAR2(512 CHAR) | Yes |  |  | 选项说明 |
| AUTHORIZING | NUMBER(1,0) | Yes |  |  | 是否需要授权 |
| OPTION\_TYPE | NUMBER(8,0) | Yes |  |  | 选项类型 |
| BIZ\_OBJECT\_ID | VARCHAR2(32 BYTE) | Yes |  |  | 业务对象ID |
| IS\_INACTIVE | NUMBER(1,0) | Yes | 0 |  | 是否停用 |

**4. 促销员权限表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **DT\_PV\_USER\_OPTION** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| USER\_ID | NUMBER(8,0) | No |  | PK/FK | 用户ID |
| OPTION\_ID | NUMBER(8,0) | No |  | PK/FK | 选项ID |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK/FK | 公司ID |
| CREATED\_BY | NUMBER(8,0) | Yes |  |  | 创建者 |
| CREATED\_TIME | TIMESTAMP(6) | Yes |  |  | 创建时间 |

#### 4.1.2. 店铺信息

**1. 店铺实体关系:**



**2. 店铺表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **T\_BB\_SHOP** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK | 公司ID号 |
| DEALER\_ID | NUMBER(8,0) | No |  | PK | 经销商(门店)ID号 |
| DEALER\_CODE | VARCHAR2(16 BYTE) | No |  |  | 经销商(门店)代码 |
| DEALER\_NAME | NVARCHAR2(128 CHAR) | No |  |  | 经销商(门店)名称 |
| DEALER\_SHORT\_NAME | NVARCHAR2(128 CHAR) | Yes |  |  | 经销商(门店)简称 |
| COUNTRY | NUMBER(8,0) | No |  |  | 国家 |
| PROVINCE | NUMBER(8,0) | Yes |  |  | 州/省 |
| CITY | NUMBER(8,0) | Yes |  |  | 城市 |
| TOWN | VARCHAR2(64 BYTE) | Yes |  |  | 区县 |
| ADDRESS | VARCHAR2(256 BYTE) | Yes |  |  | 地址 |
| IS\_KOM | NUMBER(1,0) | No |  |  | 是否KOM |
| GRADE\_ID | NUMBER(8,0) | Yes |  |  | KOM等级ID |
| FEMPNO | NUMBER(8,0) | Yes |  |  | 业务员 |
| RELATIONSHIP | NUMBER(8,0) | Yes |  |  | 与我们的关系 |
| LASTBUSSDATE | DATE | Yes |  |  | 最后提货日期 |
| INCORPORATOR | NVARCHAR2(32 CHAR) | Yes |  |  | 法人代表 |
| INCORPORATOR\_TEL | VARCHAR2(32 BYTE) | Yes |  |  | 法人电话 |
| FREGDATE | DATE | Yes |  |  | 成立时间 |
| FWIDTH | NUMBER(8,2) | Yes |  |  | 店面宽 |
| FDEPTH | NUMBER(8,2) | Yes |  |  | 店面深 |
| FAREA | NUMBER(8,2) | Yes |  |  | 营业面积 |
| SHOPCLASS | NUMBER(8,0) | Yes |  |  | 店铺类型 |
| SHOWNUM | NUMBER(8,0) | Yes |  |  | 展柜数 |
| STAFFNUM | NUMBER(8,0) | Yes |  |  | 员工数 |
| SALESNUM | NUMBER(8,0) | Yes |  |  | 营业员数 |
| BRAND\_CODE1 | VARCHAR2(32 BYTE) | Yes |  |  | 主推品牌1 |
| BRAND\_CODE2 | VARCHAR2(32 BYTE) | Yes |  |  | 主推品牌2 |
| BRAND\_CODE3 | VARCHAR2(32 BYTE) | Yes |  |  | 主推品牌3 |
| REMARK | NVARCHAR2(512 CHAR) | Yes |  |  | 备注-512 |
| UPLOAD\_FLAG | NUMBER(1,0) | Yes | 0 |  | 上报标记 |
| IS\_INACTIVE | NUMBER(1,0) | Yes | 0 |  | 是否停用 |
| CREATED\_BY | VARCHAR2(20 BYTE) | Yes |  |  | 创建者 |
| CREATED\_TIME | DATE | Yes |  |  | 创建时间 |
| UPDATED\_BY | VARCHAR2(20 BYTE) | Yes |  |  | 更新者 |
| UPDATED\_TIME | DATE | Yes |  |  | 更新时间 |
| VERSION | NUMBER(8,0) | Yes | 0 |  | 数据版本 |
| PARENT\_ID | NUMBER(8,0) | Yes |  |  |  |

#### 4.1.2. 品牌机型信息

**1. 品牌机型实体关系:**



**2. 品牌表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **T\_BB\_BRAND** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| BRAND\_CODE | VARCHAR2(10 BYTE) | No |  | PK | 品牌代码 |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK | 公司ID号 |
| BRAND\_NAME | NVARCHAR2(64 CHAR) | No |  |  | 品牌名称 |
| BRAND\_DEPT | NUMBER(8,0) | Yes |  |  | 所属事业部 |
| IS\_SELF | NUMBER(1,0) | Yes |  |  | 事业部名称 |
| IS\_INACTIVE | NUMBER(1,0) | Yes | 0 |  | 是否停用 |
| CREATED\_TIME | DATE | Yes |  |  | 创建时间 |
| CREATED\_BY | VARCHAR2(20 BYTE) | Yes |  |  | 创建者 |
| UPDATED\_TIME | DATE | Yes |  |  | 更新时间 |
| UPDATED\_BY | VARCHAR2(20 BYTE) | Yes |  |  | 更新者 |
| VERSION | NUMBER(8,0) | Yes | 0 |  | 数据版本 |

**4. 系列表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **T\_BB\_SERIES** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| SERIES\_CODE | VARCHAR2(10 BYTE) | No |  | PK | 产品系列代码 |
| BRAND\_CODE | VARCHAR2(10 BYTE) | No |  | PK/FK | 品牌代码 |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK/FK | 公司ID号 |
| SERIES\_NAME | VARCHAR2(32 BYTE) | Yes |  |  | 产品系列名称 |
| IS\_INACTIVE | NUMBER(1,0) | Yes | 0 |  | 是否停用 |
| CREATED\_TIME | DATE | Yes |  |  | 创建时间 |
| CREATED\_BY | VARCHAR2(20 BYTE) | Yes |  |  | 创建者 |
| UPDATED\_TIME | DATE | Yes |  |  | 更新时间 |
| UPDATED\_BY | VARCHAR2(20 BYTE) | Yes |  |  | 更新者 |
| VERSION | NUMBER(8,0) | Yes | 0 |  | 数据版本 |

**3. 机型表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **T\_BB\_BOM\_ELEMENTS** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK/FK |  |
| SERIES\_CODE | VARCHAR2(10 BYTE) | No |  | PK/FK |  |
| BRAND\_CODE | VARCHAR2(10 BYTE) | No |  | PK/FK |  |
| MODEL\_MAT\_CODE | VARCHAR2(32 BYTE) | No |  | PK |  |
| ELEMENT\_TYPE | NUMBER(8,0) | No |  |  |  |
| ELEMENT\_CODE | VARCHAR2(32 BYTE) | No |  |  |  |
| MODEL\_MAT\_NAME | NVARCHAR2(128 CHAR) | Yes |  |  |  |
| SALE\_TIME | DATE | Yes |  |  |  |
| PRICE\_SCALE | NUMBER(8,0) | Yes |  |  |  |
| SALEAREA | NVARCHAR2(256 CHAR) | Yes |  |  |  |
| IS\_INACTIVE | NUMBER(1,0) | Yes | 0 |  |  |
| CREATED\_TIME | DATE | Yes |  |  |  |
| CREATED\_BY | NUMBER(8,0) | Yes |  |  |  |
| UPDATED\_TIME | DATE | Yes |  |  |  |
| UPDATED\_BY | NUMBER(8,0) | Yes |  |  |  |
| VERSION | NUMBER(8,0) | Yes | 0 |  |  |
| SCREEN\_SIZE | VARCHAR2(64 BYTE) | Yes |  |  |  |
| PHOTOID | NUMBER(12,0) | Yes |  |  |  |
| STANDARD | NUMBER(8,0) | Yes |  |  |  |
| FRONTCAMERA | VARCHAR2(64 BYTE) | Yes |  |  |  |
| BACKCAMERA | VARCHAR2(64 BYTE) | Yes |  |  |  |
| FLASHLUMP | NUMBER(8,0) | Yes |  |  |  |
| BATVOLUMN | VARCHAR2(64 BYTE) | Yes |  |  |  |
| MAINFREQUENCY | VARCHAR2(64 BYTE) | Yes |  |  |  |
| RAM | VARCHAR2(64 BYTE) | Yes |  |  |  |
| ROM | VARCHAR2(64 BYTE) | Yes |  |  |  |
| OPSYSTEM | VARCHAR2(64 BYTE) | Yes |  |  |  |
| PRODUCTSIZE | VARCHAR2(64 BYTE) | Yes |  |  |  |
| GIFT | VARCHAR2(128 BYTE) | Yes |  |  |  |
| SELLINGPOINT | VARCHAR2(128 BYTE) | Yes |  |  |  |
| PIC\_URL\_LARGE | VARCHAR2(200 BYTE) | Yes |  |  |  |
| PIC\_URL\_SMALL | VARCHAR2(200 BYTE) | Yes |  |  |  |
| SIM\_COUNT | VARCHAR2(10 BYTE) | Yes |  |  |  |
| SIM\_TYPE | VARCHAR2(200 BYTE) | Yes |  |  |  |
| CPU\_INFO | VARCHAR2(200 BYTE) | Yes |  |  |  |
| CPU\_COUNT | VARCHAR2(200 BYTE) | Yes |  |  |  |
| NET | VARCHAR2(200 BYTE) | Yes |  |  |  |
| WEIGHT | VARCHAR2(200 BYTE) | Yes |  |  |  |
| RESOLUTION | VARCHAR2(200 BYTE) | Yes |  |  |  |
| IS\_HOT | NUMBER(1,0) | Yes |  |  |  |
| REMARK | VARCHAR2(200 BYTE) | Yes |  |  |  |
| PRICE\_LOCAL | NUMBER(10,2) | Yes |  |  |  |
| PRICE\_US | NUMBER(10,2) | Yes |  |  |  |
| COUNTRY | VARCHAR2(200 BYTE) | Yes |  |  |  |
| CITY | VARCHAR2(200 BYTE) | Yes |  |  |  |
| RATE | NUMBER(10,2) | Yes |  |  |  |
| FITTING | VARCHAR2(200 BYTE) | Yes |  |  |  |

#### 4.1.2. 销售信息

**1. 销售实体关系:**



**2. 销售表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **T\_SHOP\_SALES** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK |  |
| BILLNO | CHAR(12 BYTE) | No |  | PK |  |
| TRANTYPE | NUMBER(8,0) | No |  |  |  |
| DEALER\_ID | NUMBER(8,0) | No |  |  |  |
| SALE\_DATE | DATE | Yes |  |  |  |
| EMP\_ID | NUMBER(8,0) | Yes |  |  |  |
| MODEL\_MAT\_CODE | VARCHAR2(32 BYTE) | Yes |  |  |  |
| WERKS | VARCHAR2(5 BYTE) | Yes |  |  |  |
| CURRENCY\_RATIO | NUMBER(8,3) | Yes |  |  |  |
| SALE\_QTY | NUMBER(8,2) | Yes |  |  |  |
| SALE\_AMOUNT | NUMBER(12,2) | Yes |  |  |  |
| REMARK | NVARCHAR2(512 CHAR) | Yes |  |  |  |
| FSTATUS | NUMBER(8,0) | Yes |  |  |  |
| CREATED\_BY | NUMBER(8,0) | Yes |  |  |  |
| CREATED\_TIME | DATE | Yes |  |  |  |
| UPDATED\_BY | NUMBER(8,0) | Yes |  |  |  |
| UPDATED\_TIME | DATE | Yes |  |  |  |
| VERSION | NUMBER(8,0) | Yes | 0 |  |  |
| PHONEVERSION | VARCHAR2(20 BYTE) | Yes |  |  |  |

**3. 销售明细表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **T\_SHOP\_SALEITEM** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK/FK |  |
| BILLNO | CHAR(12 BYTE) | No |  | PK/FK |  |
| LINE\_ID | NUMBER(12,0) | No |  | PK |  |
| BRAND\_CODE | VARCHAR2(10 BYTE) | Yes |  |  |  |
| MODEL\_MAT\_CODE | VARCHAR2(32 BYTE) | Yes |  |  |  |
| ELEMENT\_TYPE | NUMBER(8,0) | Yes |  |  |  |
| ELEMENT\_CODE | VARCHAR2(32 BYTE) | Yes |  |  |  |
| MODEL\_MAT\_NAME | VARCHAR2(32 BYTE) | Yes |  |  |  |
| SALE\_QTY | NUMBER(8,2) | Yes |  |  |  |
| SALE\_PRICE | NUMBER(12,2) | Yes |  |  |  |
| SALE\_AMOUNT | NUMBER(12,2) | Yes |  |  |  |
| SALESMAN\_ID | NUMBER(12,0) | Yes |  |  |  |
| INVOICE\_NO | VARCHAR2(32 BYTE) | Yes |  |  |  |
| IMEI\_NO | VARCHAR2(32 BYTE) | Yes |  |  |  |
| QR\_CODE | VARCHAR2(512 BYTE) | Yes |  |  |  |
| USER\_NAME | VARCHAR2(64 BYTE) | Yes |  |  |  |
| GENDER | NUMBER(8,0) | Yes |  |  |  |
| PHONE\_NO | VARCHAR2(32 BYTE) | Yes |  |  |  |
| EMAIL | VARCHAR2(64 BYTE) | Yes |  |  |  |
| HOME\_ADDRESS | NVARCHAR2(128 CHAR) | Yes |  |  |  |
| ZIP\_CODE | VARCHAR2(8 BYTE) | Yes |  |  |  |
| REMARK | NVARCHAR2(512 CHAR) | Yes |  |  |  |
| IMEI\_LIST | VARCHAR2(64 BYTE) | Yes |  |  |  |
| PRODUCT\_DATE | DATE | Yes |  |  |  |
| FACTORY\_CODE | VARCHAR2(32 BYTE) | Yes |  |  |  |

#### 4.1.3. 库存信息

**1. 库存实体关系:**



**2. 库存表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **T\_SHOPSTOCK\_MAIN** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK |  |
| BILLNO | CHAR(12 BYTE) | No |  | PK |  |
| TRANTYPE | NUMBER(8,0) | No |  |  |  |
| DEALER\_ID | NUMBER(8,0) | No |  |  |  |
| FDATE | DATE | Yes |  |  |  |
| EMP\_ID | NUMBER(8,0) | Yes |  |  |  |
| WERKS | VARCHAR2(5 BYTE) | Yes |  |  |  |
| CURRENCY\_RATIO | NUMBER(8,3) | Yes |  |  |  |
| FTOTALAMT | NUMBER(12,2) | Yes |  |  |  |
| FMEMO | VARCHAR2(256 BYTE) | Yes |  |  |  |
| FSTATUS | NUMBER(8,0) | Yes |  |  |  |
| CREATED\_BY | NUMBER(8,0) | Yes |  |  |  |
| CREATED\_TIME | DATE | Yes |  |  |  |
| UPDATED\_BY | NUMBER(8,0) | Yes |  |  |  |
| UPDATED\_TIME | DATE | Yes |  |  |  |
| VERSION | NUMBER(8,0) | Yes |  |  |  |

**3. 库存明细表:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **表名** | **T\_SHOPSTOCK\_DETAIL** | | | | |
| **列名** | **数据类型** | **允许为空** | **默认值** | **约束** | **说明** |
| COMPANY\_ID | NUMBER(8,0) | No |  | PK/FK |  |
| BILLNO | CHAR(12 BYTE) | No |  | PK/FK |  |
| LINE\_ID | NUMBER(8,0) | No |  | PK |  |
| BRAND\_CODE | VARCHAR2(10 BYTE) | Yes |  |  |  |
| MODEL\_MAT\_CODE | VARCHAR2(32 BYTE) | Yes |  |  |  |
| FQTY | NUMBER(8,2) | Yes |  |  |  |
| FPRICE | NUMBER(10,2) | Yes |  |  |  |
| FAMOUNT | NUMBER(10,2) | Yes |  |  |  |
| FNOTE | VARCHAR2(128 BYTE) | Yes |  |  |  |