**办公自动化系统**

**数据库设计说明书**

目录

1. 引言...................................................................................................3

1.1 预期的读者.................................................................................3

1.2 数据库.........................................................................................3

1.3 目的和作用.................................................................................10

1. 数据库设计.......................................................................................10

2.1 系统逻辑结构设计.....................................................................10

2.2 系统物理结构设计.....................................................................15

2.3 表设计.........................................................................................15

**1. 引言**

# 1.1预期的读者

数据库设计文档是对本系统数据库的所有标识、逻辑结构、和物理结构作出具体的设计规定和分析说明，指导程序员进行数据库的建立、设计工作，为数据库的设计、实现提供主要依据。

预期的读者为系统的开发者、使用者和指导老师。

# 1.2数据库

1. 员工表（Employee）

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Id | sID | Number | name | Phonenumber | startDate | EndDate | Pwd | Money | workExperience | State | loseTime |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

1. 部门表（department）

|  |  |  |  |
| --- | --- | --- | --- |
| Id | dName | Description | state |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

3.考勤表（check）

|  |  |  |  |
| --- | --- | --- | --- |
| id | eID | State | checkDate |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

4.管理员表（admin）

|  |  |  |
| --- | --- | --- |
| Id | userName | userPwd |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

5.请假表（leavelist）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Id | Eid | Reason | Date | state |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

6.绩效表（performance）

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Id | expectNum | finshNum | startDate | endDate | bonus | eId |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

7. 权限表（privilege）

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Name | url | parentId |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

8. 角色权限表 （privilege\_role）

|  |  |  |
| --- | --- | --- |
| Id | privilegeId | roleId |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

9.角色表（role）

|  |  |  |
| --- | --- | --- |
| Id | name | description |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

10.状态表（station）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Id | dId | sName | description | state |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

11.通知表（notify）

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Eid | Contend | sendtime |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

12.论坛表（forum）

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Id | lasttopicId | Name | Description | topicCount | ArtcleCount | state |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

13.主题表（topic）

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Id | Authorid | Forumid | Lastreplyid | Title | Content | Posttime | Lastupdatetime | Type | Replycount | state |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

14.回复表（reply）

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Id | Authorid | Topicid | Title | Content | posttime |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

# 1.3 目的和作用

本办公自动化系统的数据库设计说明书，对本系统数据库的所有标识、逻辑结构、和物理结构作出具体的设计规定和分析说明，指导程序员进行数据库的建立、设计工作，为数据库的设计、实现提供主要依据。

本文档主要针对商场手机进存销系统的概要设计和详细设计人员，便于开发人员对数据库进行进一步的开发改进，同时也为后续的数据库维护工作提供了良好的使用说明，也可作为项目验收和未来版本升级的主要依据。

1. **数据库设计**

**2.1 系统逻辑结构设计**

phonenumber

workExperience

员工表

（Employee）

Id

loseTime

sId

number

name

startDate

pwd

money

EndDate

state

id

dname

部门表

（description）

description

state

id

state

date

reason

eid

id

请假表

（leave）

管理员表

（admin）

state

eid

checkDate

考勤表

（check）

pwd

id

username

expectNum

id

bonus

finshNum

绩效表

（performance）

eid

endDate

startDate

url

url

id

权限表

（privilege）

name

角色权限表

（role\_privilege）

roleid

id

privilegeid

角色表

（role）

Description

id

sname

id

state

description

did

状态表

（station）

name

id

sendTime

eid

通知表

（notify）

content

id

权限状态表

（privilege\_station）

roleid

privilegeId

id

id

回复表

（reply）

id

id

lastUpdateTime

replyCount

id

authorId

forumId

title

postTime

content

type

type

主题表

（topic）

id

id

**2.2 系统物理结构设计**

操作结果

结果显示

信息删除

信息修改

信息添加

数据库

信息维护

信息查询

用户登录

**2.3 表设计**

**数据字典设计：**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 管理员（admin） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| Name | Varchar | 255 | 0 | NOT NULL |
| Pwd | Varchar | 255 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 考勤表（check） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| eid | Int | 10 | 0 | NOT NULL |
| State | Int | 2 | 0 | NOT NULL |
| checkDate | Date | 0 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 部门表（department） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| Dname | Varchar | 10 | 0 | NOT NULL |
| Description | Varchar | 10 | 0 | NOT NULL |
| State | Int | 1 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 员工表（employee） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| sid | Int | 10 | 0 | NOT NULL |
| number | Varchar | 10 | 0 | NOT NULL |
| name | Varchar | 8 | 0 | NOT NULL |
| Phonenumber | Varchar | 11 | 0 | NOT NULL |
| startDate | Date | 0 | 0 | NOT NULL |
| endDate | Date | 0 | 0 | NOT NULL |
| Pwd | Varchar | 30 | 0 | NOT NULL |
| Money | Decimal | 10 | 0 | NOT NULL |
| Workexperience | Varchar | 2 | 0 | NOT NULL |
| State | Int | 2 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请假表（leavelist） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| eid | Int | 10 | 0 | NOT NULL |
| Reason | Varchar | 200 | 0 | NOT NULL |
| Date | date | 0 | 0 | NOT NULL |
| State | Int | 1 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 通知表（notify） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 11 | 0 | NOT NULL 主键 |
| eid | Int | 11 | 0 | NOT NULL |
| content | Varchar | 255 | 0 | NOT NULL |
| Sendtime | datetime | 0 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 绩效表（performance） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| expectNum | Decimal | 10 | 0 | NOT NULL |
| finishNum | Decimal | 10 | 0 | NOT NULL |
| startDate | Date | 0 | 0 | NOT NULL |
| endDate | Date | 0 | 0 | NOT NULL |
| Bonus | Decimal | 10 | 0 | NOT NULL |
| eid | Int | 10 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 权限表（privilege） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| name | varchar | 8 | 0 | NOT NULL |
| url | varchar | 255 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 角色权限表（privilege\_role） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| privilegeid | int | 10 | 0 | NOT NULL |
| roleid | int | 10 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 角色表（role） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| name | varchar | 8 | 0 | NOT NULL |
| description | varchar | 255 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 状态表（station） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| id | Int | 10 | 0 | NOT NULL 主键 |
| did | int | 10 | 0 | NOT NULL |
| sname | varchar | 10 | 0 | NOT NULL |
| description | Varchar | 100 | 0 | NOT NULL |
| State | Int | 2 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 主题表（topic） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| Id | Int | 11 | 0 | NOT NULL 主键 |
| Authorid | Int | 11 | 0 | NOT NULL |
| Forumid | Int | 11 | 0 | NOT NULL |
| Lastreplyid | Int | 11 | 0 | NOT NULL |
| Title | Varchar | 255 | 0 | NOT NULL |
| Content | Varchar | 255 | 0 | NOT NULL |
| Posttime | Datetime | 0 | 0 | NOT NULL |
| Lastupdatetime | Datetime | 0 | 0 | NOT NULL |
| Type | Varchar | 255 | 0 | NOT NULL |
| Replycount | Int | 11 | 0 | NOT NULL |
| State | Int | 11 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 论坛表（forum） | | | | |
| 名 | 类型 | 长度 | 十进位 | 说明 |
| Id | Int | 11 | 0 | NOT NULL 主键 |
| Lasttopicid | Int | 20 | 0 | NOT NULL |
| Name | Varchar | 255 | 0 | NOT NULL |
| Description | Varchar | 255 | 0 | NOT NULL |
| Topiccount | Int | 11 | 0 | NOT NULL |
| Artclecount | Int | 11 | 0 | NOT NULL |
| State | Int | 11 | 0 | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 回复表（reply） | | | | |
| Id | Int | 11 | 0 | NOT NULL 主键 |
| Authorid | Int | 11 | 0 | NOT NULL |
| Topicid | Int | 11 | 0 | NOT NULL |
| Title | Varchar | 255 | 0 | NOT NULL |
| Content | Varchar | 255 | 0 | NOT NULL |
| Posttime | Datetime | 0 | 0 | NOT NULL |