XXX Project

Version: 0.0.2

Database Design Document

April 2018

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 2018/4/25 | 0.0.1 |  | Jack |
| 2018/4/26 | 0.0.2 |  | Jack |
|  |  |  |  |

1. **Introduction**
   1. **Purpose**
   2. **Backgound**
2. **Architecture Design**
   1. **Surroundings**
3. **Database Design**
   1. **Entity-relationship diagram**
   2. **Tables schemas**

Create database:

CREATE DATABASE IF NOT EXISTS my\_db default charset utf8 COLLATE utf8\_general\_ci;

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | order | | | |  | | |  | | | |
| **Desc** |  | | | | **Name** | | | tbl\_resources\_ext | | | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** | **Desc** | | |  | | | |
| 1 | id | varchar(200) | No | guid |
| 2 | order\_number | bigint(20) | No |  |
| 3 | order\_date | datetime | No |  |
| 4 | customer\_id | varchar(200) | Yes |  |
| 5 | total\_price | decimal(7,2) | No |  | 3 | deleted | int(11) | | No | Default(0) |
| 6 | business\_id | bigint(20) | No |  | 4 | tenantid | bigint(20) | | No | Default(0) |

SQL Code:

-- -----------------------------------------------------

-- Table `order`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `order` (

`id` VARCHAR(200) NOT NULL,

`order\_number` bigint(20) NOT NULL,

`order\_date` datetime NOT NULL,

`customer\_id` varchar(200) NULL DEFAULT NULL,

`total\_price` decimal(7,2) NOT NULL,

`business\_id` bigint(20) NOT NULL,

PRIMARY KEY (`id`),

CONSTRAINT `line\_item\_fk1`

FOREIGN KEY (`customer\_id`)

REFERENCES `employee` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | order\_status | | | |  | |
| **Desc** |  | | | | **Name** | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** | **Desc** | |
| 1 | order\_id | varchar(200) | No | guid |
| 2 | line\_number | bigint(20) | No |  |
| 3 | last\_modified | datetime | No |  |
| 4 | status\_id | int(11) | No |  |
| 5 |  |  |  |  | 3 |
| 6 |  |  |  |  | 4 |

SQL Code:

-- -----------------------------------------------------

-- Table `order\_status`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `order\_statu` (

`order\_id` VARCHAR(200) NOT NULL,

`line\_number` bigint(20) NOT NULL,

`last\_modified` datetime NOT NULL,

`status\_id` int(11) NOT NULL,

CONSTRAINT `order\_status\_fk1`

FOREIGN KEY (`order\_id`)

REFERENCES `order` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION

)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | order\_line\_item | | | |  | |
| **Desc** |  | | | | **Name** | |
| **Field Seq** | **Field Name** | **Data Type** | **Null-able** | **Memo** | **Desc** | |
| 1 | order\_id | varchar(200) | No | guid |
| 2 | line\_number | bigint(20) | No |  |
| 3 | item\_id | varchar(200) | No |  |
| 4 | qty | int(11) | No |  |
| 5 | unit\_price | decimal(7,2) | No |  | 3 |
| 6 |  |  |  |  | 4 |

SQL Code:

-- -----------------------------------------------------

-- Table `order\_line\_item`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `order\_line\_item` (

`order\_id` VARCHAR(200) NOT NULL,

`line\_number` bigint(20) NOT NULL,

`item\_id` VARCHAR(200) NOT NULL,

`qty` int(11) NOT NULL,

`unit\_price` decimal(7,2) NOT NULL,

PRIMARY KEY (`id`),

CONSTRAINT `line\_item\_fk1`

FOREIGN KEY (`order\_id`)

REFERENCES `order` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8;