# Database Design

Collation: utf8-bin.

## Table Name: account

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NAME | DATA TYPE | DEFAULT | NULL | UNIQUE | COMMENTS |
| account\_no | varchar(8) |  |  | Yes | Primary Key. Should follow a certain rule. |
| user\_id | varchar(50) |  |  | Yes | Could be email address or phone number. |
| nick\_name | varchar(30) | NULL | Yes |  | Optional. |
| phone | varchar(20) | NULL | Yes\* | Yes | Optional. Fill in automatically if user chooses to use the phone number to register. |
| email | varchar(50) | NULL | Yes\* | Yes | Optional. Fill in automatically if user chooses to use the email address to register. |
| password | char(32) |  |  |  | Encrypted with MD5 function. |
| subscribed | tinyint(1) |  |  |  | 1 if the user subscribes for news & offers from the website, otherwise: 0. |
| default\_info\_id | smallint(2) | NULL | Yes |  | Foreign key references from table *account\_info*. |
|  |  |  |  |  |  |

Note: phone number register function is for future. If line phone is supported, should support voice verification code. If not supported, only support mobile phone.

\*The relationship between phone and email are XOR: column *email* couldn't be *Null* if *phone* is *Null*, vice versa.

## Table Name: account\_info

This table saves contact information used for delivery.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NAME | DATA TYPE | DEFAULT | NULL | UNIQUE | COMMENTS |
| account\_no | varchar(8) |  |  |  | Composite primary key. Foreign key. |
| info\_id | smallint (2) |  |  |  | Composite primary key. From 1 to n. |
| name | varchar(100) |  |  |  | Name of person whom to contact. |
| contact\_phone1 | varchar(20) |  |  |  |  |
| contact\_phone2 | varchar(20) | NULL | Yes |  | Optional. |
| contact\_phone3 | varchar(20) | NULL | Yes |  | Optional. |
| buzzer | varchar(10) | NULL | Yes |  | Optional. |
| apt | varchar(10) |  |  |  |  |
| street\_address | varchar(100) |  |  |  |  |
| postal\_code | varchar (10) |  |  |  |  |
| city | varchar (30) | Montreal |  |  |  |
| province | varchar (30) | QC |  |  |  |
| country | varchar (30) | Canada |  |  |  |
|  |  |  |  |  |  |

sql statement for setting character set as utf8 for all names, including database, tables and columns.

set names utf8;