1. Database table design

S\_USER

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Name | Column Type | PK | NULL | Expression |
| ID | INT | PK |  | PK |
| USER\_NAME | VARCHAR(32) |  | NOT NULL | UserName for login  System |
| PASSWORD | VARCHAR(32) |  | NOT NULL |  |
| USER\_TYPE | CHAR(1) |  |  | 0: Admin User; 1: Normal User |
| EMAIL | VARCHAR(128) |  |  |  |
| MOBILE\_NUM | VARCHAR(16) |  |  |  |
| CONFIRMED | CHAR(1) |  |  | 0：not confirmed；1：confirmed |

1. S\_SECTOR

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Name | Column Type | PK | NULL | Expression |
| ID | INT | PK |  | PK |
| SECTOR\_ID | INT |  | NOT NULL |  |
| SECTOR\_NAME | VARCHAR(32) |  | NOT NULL |  |
| BRIEF | VARCHAR(256) |  |  |  |

1. S\_STOCK\_EXCHANGE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Name | Column Type | PK | Null | Expression |
| ID | INT | PK |  | PK |
| EXCHANGE\_ID | INT |  | NOT NULL |  |
| EXCHANGE\_NAME | VARCHAR(32) |  | NOT NULL |  |
| BRIEF | VARCHAR(256) |  |  |  |
| CONTACT\_ADDR | VARCHAR(256) |  |  |  |
| EXPRESSION | VARCHAR(256) |  |  |  |

1. S\_COMPANY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Name | Column Type | PK | Null | Expression |
| ID | INT | PK |  | PK |
| COMPANY\_NAME | VARCHAR(128) |  | NOT NULL |  |
| COMPANY\_CODE | INT |  | NOT NULL |  |
| EXCHANGE\_ID | INT |  | NOT NULL |  |
| TURN\_OVER | VARCHAR(256) |  |  |  |
| CEO | VARCHAR(64) |  | NOT NULL |  |
| BOARD\_OF\_DIRECTORS | VARCHAR(256) |  |  |  |
| SECTOR\_ID | INT |  | NOT NULL |  |
| BRIEF | VARCHAR(256) |  |  |  |

1. S\_STOCK\_PRICE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Name | Column Type | PK | Null | Expression |
| COMPANY\_CODE | INT | PK |  | PK |
| COMPANY\_NAME | VARCHAR(128) |  | NOT NULL |  |
| CURRENT\_PRICE | DECIMAL(5,2) |  | NOT NULL |  |
| OPEN\_PRICE | DECIMAL(5,2) |  | NOT NULL |  |
| HIGH\_PRICE | DECIMAL(5,2) |  | NOT NULL |  |
| LOW\_PRICE | DECIMAL(5,2) |  | NOT NULL |  |
| PRICE\_DATE | DATE |  | NOT NULL |  |

1. S\_IPO\_PLANED

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Name | Column Type | PK | Null | Expression |
| ID | INT | PK |  | PK |
| COMPANY\_NAME | VARCHAR(128) |  | NOT NULL |  |
| EXCHANGE\_ID | INT |  |  |  |
| PRE\_PRICE | DECIMAL(5,2) |  |  |  |
| TOTAL\_NUM | INT |  |  |  |
| OPEN\_DATE | DATE |  |  |  |
| EXPRESSION | VARCHAR(256) |  |  |  |