Tab1. Dataset list of user profile

|  |  |  |
| --- | --- | --- |
| **Serial number** | **Variable name** | **Meaning** |
| **1** | **id** | **User ID** |
| **2** | **elec\_type\_name** | **User type** |
| **3** | **volt\_name** | **Voltage level** |
| **4** | **prc\_name** | **Price name** |
| **5** | **contract\_cap** | **Contract capacity** |
| **6** | **run\_cap** | **Operation capacity** |
| **7** | **shift\_no** | **Maintenance group information** |
| **8** | **build\_date** | **User account building year** |
| **9** | **cancel\_date** | **Cancel date** |
| **10** | **chk\_cycle** | **Checking cycle** |
| **11** | **last\_chk\_date** | **Last checking year** |
| **12** | **tmp\_name** | **Temporary electricity use** |
| **13** | **tmp\_date** | **Expiration date of temporary electricity** |

Tab2. Dataset list of monthly power consumption

|  |  |  |
| --- | --- | --- |
| **Serial number** | **Variable name** | **Meaning** |
| **1** | **id** | **User ID** |
| **2** | **ym** | **Year and month** |
| **3** | **pq\_f** | **Monthly power consumption in peak period** |
| **4** | **pq\_g** | **Monthly power consumption in valley period** |
| **5** | **pq\_p** | **Monthly power consumption in normal period** |
| **6** | **pq\_z** | **Monthly sum power consumption** |

Tab3. Dataset list of daily power consumption

|  |  |  |
| --- | --- | --- |
| **Serial number** | **Variable name** | **Meaning** |
| **1** | **id** | **User ID** |
| **2** | **rq** | **day** |
| **3** | **kwh** | **Daily sum power consumption** |
| **4** | **kwh\_rap** | **Reverse power consumption** |
| **5** | **kwh\_pap\_r1** | **Daily power consumption in period 1** |
| **6** | **kwh\_pap\_r2** | **Daily power consumption in period 2** |
| **7** | **kwh\_pap\_r3** | **Daily power consumption in period 3** |
| **8** | **kwh\_pap\_r4** | **Daily power consumption in period 4** |