|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table | Column | Description | Is Required | Maximum Length | Type | Key |
| Bike | BikeID | Bike ID | YES |  | bigint(20) | PRI |
| stationID | Station ID | YES |  | bigint(20) | FOR |
| lockID | Lock ID | YES |  | bigint(20) |  |
| PlateLicense | Bike’s plate license | YES | 255 | varchar(255) |  |
| Brand | Bike’s brand | YES | 255 | varchar(255) |  |
| Model | Bike’s Model | YES | 255 | varchar(255) |  |
| Battery | Remaining battery of bike | NO | 255 | varchar(255) |  |
| OperationDate | Date of manufacture | YES |  | datetime |  |
| type | Type of bike | YES | 255 | varchar(255) |  |
| status | Rented or not | YES |  | boolean |  |
| Lock | lockID | Lock ID | YES |  | bigint(20) | PRI |
| stationID | Station ID | YES |  | bigint(20) | FOR |
| barCode | Lock’s barCode | YES |  | bigint(20) |  |
| status | Locked or not | YES |  | boolean |  |
| Transaction | TransactionID | Transaction ID | YES |  | bigint(20) | PRI |
| BikeID | Bike ID | YES |  | bigint(20) | FOR |
| userID | User ID | YES |  | bigint(20) | FOR |
| timeStart | Transaction start time | YES |  | time |  |
| status | Successful or not | YES |  | boolean |  |
| deposit | Deposit to rent | YES |  | bigint(20) |  |
| Station | stationID | Station ID | YES |  | bigint(20) | PRI |
| stationName | Station name | YES |  | bigint(20) |  |
| address | Station address | YES | 255 | varchar(255) |  |
| area | Area of station | NO |  | bigint(20) |  |
| numberStationPoint | Number empty docking | YES |  | bigint(20) |  |
| locationCode | Location code | YES |  | bigint(20) |  |
| User | userID | User ID | YES |  | bigint(20) | PRI |
| methodID | Paymentmethod ID | YES |  | bigint(20) | FOR |
| name | User’s name | YES | 255 | varchar(255) |  |
| username | Username to login | YES | 255 | varchar(255) |  |
| password | Password | YES | 255 | varchar(255) |  |
| Payment  Method | methodID | Method ID | YES |  | bigint(20) | PRI |
| nameMethod | Method name | YES | 255 | varchar(255) |  |
| banking | Banks provide method | YES | 255 | varchar(255) |  |
| pricePerTransaction | Price per successful transaction | YES |  | bigint(20) |  |

**DATA DICTIONARY**