Bike Info Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Description | Data Type | Length (#char) | Notes |
| Bike ID | Unique identifier of each bike | Number | Double | * Blue Bike Trips
* Red Bike Trips
* The Bike ID numbers help us filter out blue bikes/red bikes
 |
| Bike name | The Name of each bike | Short Text | 255 |  |
| Total Number of Trips by Bike | How many trips each bike has | Number | Double |  |
| Total Miles Ridden | Total miles each bike ridden | Number | Double |  |
| Average Distance of Trip | Average distance of trips for each bike | Number | Double |  |
| Total Number of Trips Started within a Hub | How many trips started within a hub | Number | Double |  |
| Total Number of Trips Ended within a Hub | How many trips ended within a hub | Number | Double |  |
| Total Number of Times Bike Reported for Repair | How many times each bike reported for repair | Number | Double |  |
| Average Length (time) of Bike Trips | Average time of trips for each bike | Short Text | 255 |  |

Holds Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Route ID | Unique Route Identifier | Number | Double | Trip Identifier |
| Hold Latitude | The hold location's latitude | Number | Double | The hold location's latitude which can help us know where members want to have hub station |
| Hold Longitude | The hold location's longitude | Number | Double | The hold location's longitude which can help us know where members want to have hub station |
| Hold Start Time | When the trip started | Date/Time | m/d/yyyy h:nn | Hold Start Number helps to calculate the hold time |
| Hold End Time | When the trip ended | Date/Time | m/d/yyyy h:nn | Hold End Number helps to calculate the hold time |
| Hold Duration | How long the trip was | Short Text | 255 | We use this number to know how many trips hold more than 30 minutes |

HubsGPS Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | Description | Data Type | Length (#char) | Notes |
| name | The name of each GPS | Short Text | 255 |  |
| latitude | The latitude of each GPS | Number | Double | * The most decimal places: 9
 |
| longitude | The longitude of each GPS | Number | Double | * The most decimal places: 9
 |
| Lat 5 digits | The 5 digits of latitude of each GPS | Number | Double |  |
| Long 5 digits | The 5 digits of longitude of each GPS | Number | Double |  |
| Lat 4 digits | The 4 digits of latitude of each GPS | Number | Double |  |
| Long 4 digits | The 4 digits of longitude of each GPS | Number | Double |  |

Trip Data Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| User ID | Unique identifier of each membership | Number | Double | Notes |
| Route ID | Unique identifier of each route | Number | Double | * The route ID can help us to figure out how many trips each bike has
 |
| Payment Plan | How each membership pays for the plan | Short Text | 255 |  |
| Start Hub | What hub do each membership start | Short Text | 255 |  |
| Start Area | No currently data | Short Text | 255 |  |
| Start Latitude | The latitude where the trip start | Number | Double |  |
| Start Longitude | The longitude where the trip start | Number | Double |  |
| Start Date | The date when the trip start | Date/Time | m/d/yyyy |  |
| Start Time | The time when the trip start | Date/Time | m/d/yyyy |  |
| End Hub | What hub do each trip end | Short Text | 255 |  |
| End Area | No currently data | Short Text | 255 |  |
| End Latitude | The latitude where the trip end | Number | Double |  |
| End Longitude | The longitude where the trip end | Number | Double |  |
| End Date | The date when the trip end | Date/Time | m/d/yyyy |  |
| End Time | The time when the trip end | Date/Time | m/d/yyyy |  |
| Member Type | What type each membership is | Short Text | 255 |  |
| Trip Conditions | No currently data | Short Text | 255 |  |
| Trip Type | No currently data | Short Text | 255 |  |
| Bike ID | \* Bike ID Coding -Unique identifier of each bike | Number | Double | * “Red” Bike Codes = 0, start with 686 and end with 4157
* "Blue” bike codes =1, those would start with 5398 and end with 8948
 |
| Bike Name | The Name of each bike | Short Text | 255 |  |
| Distance (Miles) | How many miles each trip has | Number | Double |  |
| Duration | How much time each trip takes | Date/Time | m/d/yyyy |  |
| Rental Access Path | What kind of rental access each membership takes | Short Text | 255 |  |
| Multiple Rental | Do each trip has several rentals | Yes/No | Yes/No |  |
| Ride cost | How much money each trip costs for ridding | Number | Double |  |
| Fees | How much money each trip costs for out of hub | Number | Double |  |
| Bonuses | How much money each membership earns for return the out of hub bike | Number | Double |  |
| Total cost | How much money each trip costs totally | Number | Double |  |

Users Table

|  |  |  |  |
| --- | --- | --- | --- |
| Account | Unique identifier of each membership’s account | Short Text | 255 |
| Member Since | When each membership starts their rental | Date/Time | m/d/yyyy |
| Status | What status each membership has | Short Text | 255 |
| Payment plan | How each membership pays for the plan | Short Text | 255 |
| Total Number of Trips | How many trips each account takes totally | Number | Double |
| Total Distance Ridden in Miles | How many miles each account ridden totally | Number | Double |
| Average Distance Ridden in Miles | Average ridden miles each account has | Number | Double |
| Total Number of Trips Started within a Hub | How many times each account started within a hub totally | Number | Double |
| Total Number of Trips Ended within a Hub | How many times each account ended within a hub totally | Number | Double |
| Total Time User Rode Bikes | How many times each user rode bikes totally  | Short Text | 255 |
| Average Length (time) of User Trips | Average ridden time of total trips for each user | Short Text | 255 |
| Used promo codes | How many times each user use promo codes | Number | Double |
| Last Sign-In Date | What date each user last sign in  | Date/Time | m/d/yyyy |
| Last Rental Date | What date each user last rents bike  | Date/Time | m/d/yyyy |
| Calories burned | How many calories each user burned totally | Number | Double |
| Carbon Reduced (lbs.) | How many Carbon each user reduced totally | Number | Double |
| Signup origin | Which way each user signed up at the beginning | Short Text | 255 |