**SQL 指令執行 API**

1. 主機：

http://ugym3dbiking.azurewebsites.net

2. 使用規則：

POST http://ugym3dbiking.azurewebsites.net/api/<API名稱>?Code=debug123

3. 參數：

Code=許可 token 字串

4. 輸出結構（JSON）：

(1) 讀取正常

result = “TRUE”

obj =為輸出的結構資料串

(2) 讀取錯誤

Result = “Exception Message…”

obj = 請忽略

**Biking Report**

1. API 名稱：

SQL\_BikingTrainingResult

2. 資料回應格式

|  |
| --- |
| public class  {  public int ReportID { get; set; }  public string userId { get; set; }  public string trainingDate { get; set; }  public double distance { get; set; }  public double totalCalories { get; set; }  public double maxWatt { get; set; }  public double avgWatt { get; set; }  public int maxHr { get; set; }  public int avgHr { get; set; }  public int avgSimilarity { get; set; }  public int trainingDuration { get; set; }  public string updateDate { get; set; }  public string site { get; set; }  public string deviceNo { get; set; }  } |

3. 執行範例：

POST http://ugym3dbiking.azurewebsites.net/api/SQL\_BikingTrainingResult?Code=debug123

Body Raw (JSON)

{

"sqlCmd": "SELECT \* FROM BikingTrainingResult"

}

回應結果

|  |
| --- |
| {  "result": "TRUE",  "obj": [  {  "reportID": 1,  "userId": "oxyoO1eNcR300-DRcfU4vrhyTigo",  "trainingDate": "2018-03-01 00:00:00",  "distance": 10.0,  "totalCalories": 123.0,  "maxWatt": 111.0,  "avgWatt": 98.0,  "maxHr": 156,  "avgHr": 144,  "avgSimilarity": 78,  "trainingDuration": 1200,  "updateDate": "2018-03-01 00:00:00",  "site": "Null",  "deviceNo": "Null"  },  {  "reportID": 2,  "userId": "oxyoO1eNcR300-DRcfU4vrhyTigo",  "trainingDate": "2018-02-01 00:00:00",  "distance": 20.0,  "totalCalories": 223.0,  "maxWatt": 132.0,  "avgWatt": 121.0,  "maxHr": 176,  "avgHr": 134,  "avgSimilarity": 60,  "trainingDuration": 2400,  "updateDate": "2018-02-01 00:00:00",  "site": "Null",  "deviceNo": "Null"  }  ]  } |

**Jogging Report**

1. API 名稱：

SQL\_JoggingTrainingResult

2. 資料回應格式

|  |
| --- |
| public class  {  public double TotalCalories { get; set; }  public string TrainingDuration { get; set; }  public double Distance { get; set; }  public string BestPace { get; set; }  public string AvgPace { get; set; }  public double MaxStepFq { get; set; }  public double AvgStepFq { get; set; }  public double MaxHr { get; set; }  public double AvgHr { get; set; }  public double AvgTouchDownTime { get; set; }  public double AvgStride { get; set; }  public string JoggingProcess { get; set; }  public string TrainingDate { get; set; }  } |

3. 執行範例：

POST http://ugym3dbiking.azurewebsites.net/api/SQL\_JoggingTrainingResult?Code=debug123

Body Raw (JSON)

{

"sqlCmd": "SELECT \* FROM JoggingTrainingResult"

}

回應結果

|  |
| --- |
| {  "result": "TRUE",  "obj": [  {  "totalCalories": 398.0,  "trainingDuration": "01:02:03",  "distance": 9.52,  "bestPace": "05:30",  "avgPace": "06:04",  "maxStepFq": 193.0,  "avgStepFq": 173.0,  "maxHr": 160.0,  "avgHr": 153.0,  "avgTouchDownTime": 200.0,  "avgStride": 92.0,  "joggingProcess": "1,06:15,144,0\_1,06:08,150,0\_1,06:11,147,0\_1,06:06,152,0\_1,07:44,130,0\_1,06:17,145,0\_1,05:30,173,0\_1,06:22,140,0\_1,06:31,135,0\_1,03:32,193,0\_",  "trainingDate": "2019-02-27 11:20:00"  },  {  "totalCalories": 50.0,  "trainingDuration": "00:10:11",  "distance": 1.0,  "bestPace": "06:00",  "avgPace": "06:00",  "maxStepFq": 140.0,  "avgStepFq": 140.0,  "maxHr": 170.0,  "avgHr": 155.0,  "avgTouchDownTime": 200.0,  "avgStride": 92.0,  "joggingProcess": "1,06:00,140,0\_",  "trainingDate": "2019-02-27 11:20:00"  }  ]  } |

**Aggregate Report**

1. API 名稱：

SQL\_CmdReadCols

2. 資料回應格式

|  |
| --- |
| 依據 SQL 指定名稱而定。  備註：使用 Microsoft SQL 中的 ‘AS’ |

3. 執行範例：

POST http://ugym3dbiking.azurewebsites.net/api/SQL\_CmdReadCols?Code=debug123

Body Raw (JSON)

{

"sqlCmd": "SELECT SUM(distance) AS A1, AVG(distance) AS A2 FROM BikingTrainingResult WHERE

userId = 'oxyoO1eNcR300-DRcfU4vrhyTigo'",

"sqlCols": [

"A1",

"A2"

]

}

回應結果

|  |
| --- |
| {  "result": "TRUE",  "obj": [  40.12,  13.373333333333333  ]  } |