期末報告

SQL Storeprocedure

alter procedure 查詢車輛時速

@intersection\_id Varchar(50),

@tollgate\_id Varchar(50),

@車輛ID Varchar(50)

as

begin

Declare @A2長度 float;

Declare @A3長度 float;

Declare @B1長度 float;

Declare @B3長度 float;

Declare @C1長度 float;

Declare @C3長度 float;

Declare @A2平均時間 float;

Declare @A3平均時間 float;

Declare @B1平均時間 float;

Declare @B3平均時間 float;

Declare @C1平均時間 float;

Declare @C3平均時間 float;

Declare @A2平均時速 float;

Declare @A3平均時速 float;

Declare @B1平均時速 float;

Declare @B3平均時速 float;

Declare @C1平均時速 float;

Declare @C3平均時速 float;

select @A2長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('110','123','107','108','120','117');

select @A3長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('110','123','107','108','119','114','118','122');

select @B1長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('105','100','111','103','116','101','121','106','113');

select @B3長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('105','100','111','103','122');

select @C1長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('115','102','109','104','112','111','103','116','101','121','106','113');

select @C3長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('115','102','109','104','112','111','103','122');

select @A2平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='A' and tollgate\_id='2';

select @A3平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='A' and tollgate\_id='3';

select @B1平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='B' and tollgate\_id='1';

select @B3平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='B' and tollgate\_id='3';

select @C1平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='C' and tollgate\_id='1';

select @C3平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='C' and tollgate\_id='3';

select @A2平均時速=@A2長度/@A2平均時間;

select @A3平均時速=@A3長度/@A3平均時間;

select @B1平均時速=@B1長度/@B1平均時間;

select @B3平均時速=@B3長度/@B3平均時間;

select @C1平均時速=@C1長度/@C1平均時間;

select @C3平均時速=@C3長度/@C3平均時間;

if(@intersection\_id='A' and @tollgate\_id='2')--車輛與A2路段

select intersection\_id,tollgate\_id,vehicle\_id,starting\_time,@A2長度 as A2長度,travel\_time,@A2長度/(travel\_time) as 平均時速 from [dbo].[trajectories(table 5)\_training]

where vehicle\_id=@車輛ID

if(@intersection\_id='A' and @tollgate\_id='3')--車輛與A3路段

select intersection\_id,tollgate\_id,vehicle\_id,starting\_time,@A3長度 as A3長度,travel\_time,@A3長度/(travel\_time) as 平均時速 from [dbo].[trajectories(table 5)\_training]

where vehicle\_id=@車輛ID

if(@intersection\_id='B' and @tollgate\_id='1')--車輛與B1路段

select intersection\_id,tollgate\_id,vehicle\_id,starting\_time,@B1長度 as B1長度,travel\_time,@B1長度/(travel\_time) as 平均時速 from [dbo].[trajectories(table 5)\_training]

where vehicle\_id=@車輛ID

if(@intersection\_id='B' and @tollgate\_id='3')--車輛與B3路段

select intersection\_id,tollgate\_id,vehicle\_id,starting\_time,@B3長度 as B3長度,travel\_time,@B3長度/(travel\_time) as 平均時速 from [dbo].[trajectories(table 5)\_training]

where vehicle\_id=@車輛ID

if(@intersection\_id='C' and @tollgate\_id='1')--車輛與C1路段

select intersection\_id,tollgate\_id,vehicle\_id,starting\_time,@C1長度 as C1長度,travel\_time,@C1長度/(travel\_time) as 平均時速 from [dbo].[trajectories(table 5)\_training]

where vehicle\_id=@車輛ID

if(@intersection\_id='C' and @tollgate\_id='3')--車輛與C3路段

select intersection\_id,tollgate\_id,vehicle\_id,starting\_time,@C3長度 as C3長度,travel\_time,@C3長度/(travel\_time) as 平均時速 from [dbo].[trajectories(table 5)\_training]

where vehicle\_id=@車輛ID

end

exec 查詢車輛時速 C,3,1072812

alter procedure 查詢路段時速

@intersection\_id Varchar(50),

@tollgate\_id Varchar(50)

as

begin

Declare @A2長度 float;

Declare @A3長度 float;

Declare @B1長度 float;

Declare @B3長度 float;

Declare @C1長度 float;

Declare @C3長度 float;

Declare @A2平均時間 float;

Declare @A3平均時間 float;

Declare @B1平均時間 float;

Declare @B3平均時間 float;

Declare @C1平均時間 float;

Declare @C3平均時間 float;

Declare @A2平均時速 float;

Declare @A3平均時速 float;

Declare @B1平均時速 float;

Declare @B3平均時速 float;

Declare @C1平均時速 float;

Declare @C3平均時速 float;

select @A2長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('110','123','107','108','120','117');

select @A3長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('110','123','107','108','119','114','118','122');

select @B1長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('105','100','111','103','116','101','121','106','113');

select @B3長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('105','100','111','103','122');

select @C1長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('115','102','109','104','112','111','103','116','101','121','106','113');

select @C3長度 =sum(length) from [dbo].[links (table 3)]

WHERE link\_id IN ('115','102','109','104','112','111','103','122');

select @A2平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='A' and tollgate\_id='2';

select @A3平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='A' and tollgate\_id='3';

select @B1平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='B' and tollgate\_id='1';

select @B3平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='B' and tollgate\_id='3';

select @C1平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='C' and tollgate\_id='1';

select @C3平均時間=AVG(travel\_time) from [dbo].[trajectories(table 5)\_training]

WHERE intersection\_id='C' and tollgate\_id='3';

select @A2平均時速=@A2長度/@A2平均時間;

select @A3平均時速=@A3長度/@A3平均時間;

select @B1平均時速=@B1長度/@B1平均時間;

select @B3平均時速=@B3長度/@B3平均時間;

select @C1平均時速=@C1長度/@C1平均時間;

select @C3平均時速=@C3長度/@C3平均時間;

if(@intersection\_id='A' and @tollgate\_id='2')--與A2路段

select intersection\_id,tollgate\_id,@A2平均時速 as 平均時速 from [dbo].[routes (table 4)]

where intersection\_id=@intersection\_id and tollgate\_id=@tollgate\_id

if(@intersection\_id='A' and @tollgate\_id='3')--與A3路段

select intersection\_id,tollgate\_id,@A3平均時速 as 平均時速 from [dbo].[routes (table 4)]

where intersection\_id=@intersection\_id and tollgate\_id=@tollgate\_id

if(@intersection\_id='B' and @tollgate\_id='1')--與B1路段

select intersection\_id,tollgate\_id,@B1平均時速 as 平均時速 from [dbo].[routes (table 4)]

where intersection\_id=@intersection\_id and tollgate\_id=@tollgate\_id

if(@intersection\_id='B' and @tollgate\_id='3')--與B3路段

select intersection\_id,tollgate\_id,@B3平均時速 as 平均時速 from [dbo].[routes (table 4)]

where intersection\_id=@intersection\_id and tollgate\_id=@tollgate\_id

if(@intersection\_id='C' and @tollgate\_id='1')--與C1路段

select intersection\_id,tollgate\_id,@C1平均時速 as 平均時速 from [dbo].[routes (table 4)]

where intersection\_id=@intersection\_id and tollgate\_id=@tollgate\_id

if(@intersection\_id='C' and @tollgate\_id='3')--與C3路段

select intersection\_id,tollgate\_id,@C3平均時速 as 平均時速 from [dbo].[routes (table 4)]

where intersection\_id=@intersection\_id and tollgate\_id=@tollgate\_id

end

exec 查詢路段時速 B,3

alter procedure 查詢當日天氣

@date varchar(50)

as

begin

select @date as Date, AVG(pressure) as pressure,AVG(sea\_pressure) as sea\_pressure,AVG(wind\_direction) as wind\_direction,AVG(temperature) as temperature,AVG(rel\_humidity) as rel\_humidity,AVG(precipitation) as precipitation from [dbo].[weather (table 7)\_training]

WHERE date=@date

end

exec 查詢當日天氣 '2016-07-01'

select \* from [dbo].[trajectories(table 5)\_training]

alter procedure 查詢當日車輛ID

@date datetime

as

begin

select \* from [dbo].[trajectories(table 5)\_training] WHERE starting\_time=@date

end

exec 查詢當日車輛ID '2016-07-19 00:14:00.000'

C#

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data;

using System.Data.SqlClient;

using System.Configuration;

public partial class \_Default : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

}

protected void Button1\_Click1(object sender, EventArgs e)

{

string strConn = "Data Source=140.123.174.54 ; Initial Catalog=DB605546001; User ID=DB605546001; Password=goydon6a@gmail.com;";

//建立連接

SqlConnection myConn = new SqlConnection(strConn);

//打開連接

myConn.Open();

String pname = "查詢路段時速"; ;

SqlCommand com = new SqlCommand(pname, myConn);

com.CommandType = CommandType.StoredProcedure;

com.Parameters.AddWithValue("@intersection\_id", TextBox1.Text);//insert value

com.Parameters.AddWithValue("@tollgate\_id", TextBox2.Text);

GridView1.EmptyDataText = "No Record Retrieved";

GridView1.DataSource = com.ExecuteReader();

GridView1.DataBind();

myConn.Close();

}

protected void Button2\_Click(object sender, EventArgs e)

{

string strConn = "Data Source=140.123.174.54 ; Initial Catalog=DB605546001; User ID=DB605546001; Password=goydon6a@gmail.com;";

//建立連接

SqlConnection myConn = new SqlConnection(strConn);

//打開連接

myConn.Open();

String pname = "查詢當日天氣"; ;

SqlCommand com = new SqlCommand(pname, myConn);

com.CommandType = CommandType.StoredProcedure;

com.Parameters.AddWithValue("@date", TextBox3.Text);//insert value

GridView2.EmptyDataText = "No Record Retrieved";

GridView2.DataSource = com.ExecuteReader();

GridView2.DataBind();

myConn.Close();

}

protected void Button3\_Click(object sender, EventArgs e)

{

string strConn = "Data Source=140.123.174.54 ; Initial Catalog=DB605546001; User ID=DB605546001; Password=goydon6a@gmail.com;";

//建立連接

SqlConnection myConn = new SqlConnection(strConn);

//打開連接

myConn.Open();

String pname = "查詢車輛時速"; ;

SqlCommand com = new SqlCommand(pname, myConn);

com.CommandType = CommandType.StoredProcedure;

com.Parameters.AddWithValue("@intersection\_id", TextBox4.Text);//insert value

com.Parameters.AddWithValue("@tollgate\_id", TextBox5.Text);//insert value

com.Parameters.AddWithValue("@車輛ID", TextBox6.Text);//insert value

GridView3.EmptyDataText = "No Record Retrieved";

GridView3.DataSource = com.ExecuteReader();

GridView3.DataBind();

myConn.Close();

}

}

ASP.Net

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="\_Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>

<title></title>

</head>

<body>

<form id="form1" runat="server">

<div>

<asp:Label ID="Label10" runat="server" Text="資料庫期末作業-車輛查詢" Font-Size="XX-Large" ForeColor="#3333FF"></asp:Label>

<br />

----------------------------------------------------<br />

<asp:Label ID="Label1" runat="server" Text="\*查詢路段時速\*" Font-Size="Larger" Font-Underline="True" ForeColor="#3399FF"></asp:Label>

<br />

<asp:Label ID="Label2" runat="server" Text="intersection\_id: "></asp:Label>

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>

<br />

<asp:Label ID="Label3" runat="server" Text="tollgate\_id: "></asp:Label>

<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>

<br />

<asp:Button ID="Button1" runat="server" Text="查詢" OnClick="Button1\_Click1" />

<br />

----------------------------------------------------<asp:GridView ID="GridView1" runat="server" CellPadding="4" ForeColor="#333333" GridLines="None">

<AlternatingRowStyle BackColor="White" />

<EditRowStyle BackColor="#2461BF" />

<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<PagerStyle BackColor="#2461BF" ForeColor="White" HorizontalAlign="Center" />

<RowStyle BackColor="#EFF3FB" />

<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True" ForeColor="#333333" />

<SortedAscendingCellStyle BackColor="#F5F7FB" />

<SortedAscendingHeaderStyle BackColor="#6D95E1" />

<SortedDescendingCellStyle BackColor="#E9EBEF" />

<SortedDescendingHeaderStyle BackColor="#4870BE" />

</asp:GridView>

----------------------------------------------------<br />

<asp:Label ID="Label4" runat="server" Text="\*查詢當日天氣\*" Font-Size="Larger" Font-Underline="True" ForeColor="#3399FF"></asp:Label>

<br />

<asp:Label ID="Label5" runat="server" Text="請輸入查詢日期: "></asp:Label>

<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>

<br />

<asp:Button ID="Button2" runat="server" Text="查詢" OnClick="Button2\_Click" />

<br />

----------------------------------------------------<asp:GridView ID="GridView2" runat="server" CellPadding="4" ForeColor="#333333" GridLines="None">

<AlternatingRowStyle BackColor="White" />

<EditRowStyle BackColor="#2461BF" />

<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<PagerStyle BackColor="#2461BF" ForeColor="White" HorizontalAlign="Center" />

<RowStyle BackColor="#EFF3FB" />

<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True" ForeColor="#333333" />

<SortedAscendingCellStyle BackColor="#F5F7FB" />

<SortedAscendingHeaderStyle BackColor="#6D95E1" />

<SortedDescendingCellStyle BackColor="#E9EBEF" />

<SortedDescendingHeaderStyle BackColor="#4870BE" />

</asp:GridView>

----------------------------------------------------<br />

<asp:Label ID="Label6" runat="server" Text="\*查詢車輛時速\*" Font-Size="Larger" Font-Underline="True" ForeColor="#3399FF"></asp:Label>

<br />

<asp:Label ID="Label7" runat="server" Text="intersection\_id: "></asp:Label>

<asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>

<br />

<asp:Label ID="Label8" runat="server" Text="tollgate\_id: "></asp:Label>

<asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>

<br />

<asp:Label ID="Label9" runat="server" Text="請輸入車輛ID: "></asp:Label>

<asp:TextBox ID="TextBox6" runat="server"></asp:TextBox>

</div>

<p>

<asp:Button ID="Button3" runat="server" Text="查詢" OnClick="Button3\_Click" />

</p>

<p>

----------------------------------------------------</p>

<p>

<asp:GridView ID="GridView3" runat="server" CellPadding="4" ForeColor="#333333" GridLines="None">

<AlternatingRowStyle BackColor="White" />

<EditRowStyle BackColor="#2461BF" />

<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<PagerStyle BackColor="#2461BF" ForeColor="White" HorizontalAlign="Center" />

<RowStyle BackColor="#EFF3FB" />

<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True" ForeColor="#333333" />

<SortedAscendingCellStyle BackColor="#F5F7FB" />

<SortedAscendingHeaderStyle BackColor="#6D95E1" />

<SortedDescendingCellStyle BackColor="#E9EBEF" />

<SortedDescendingHeaderStyle BackColor="#4870BE" />

</asp:GridView>

</p>

<p>

&nbsp;</p>

</form>

</body>

</html>

操作介面



網址:

<http://140.123.174.54:8000/DB605546001/Default.aspx>