

SSRS REPORT

Given suburb and city, display local schools within 1km radius

The screenshot shows an SSRS report titled "Find School Within x KM". The report is designed in a landscape orientation. At the top, there are input fields for "Longitude" (149.092689), "Latitude" (-35.43676), and "WithinKM" (1). Below these fields is a navigation bar with "1 of 1" and "Find | Next" buttons. The main content area is a table with the following data:

School Name	Suburb	City	distance
Isabella Plains Early Childhood School	Isabella Plains	Canberra	0.534217268855638
St Mary MacKillop College - Isabella Plains Campus	Isabella Plains	Canberra	0.534217268855638
Isabella Plains Early Childhood School	Isabella Plains	Canberra	0.534217268855638
Isabella Plains Early Childhood School	Isabella Plains	Canberra	0.534217268855638

The report footer shows "Report created by Shilpa Jha".

Stored Procedure Used-

```
USE [PropertyAnalysis_EDW]
GO
/***** Object: StoredProcedure [dbo].[sp_get_schools_within_range]    Script Date:
22/8/2020 10:53:21 AM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
ALTER procedure [dbo].[sp_get_schools_within_range]
@long float,
@lat float,
@within_km float

as
declare @g1 geography
begin
set @g1 = geography::Point(@lat, @long, 4326)

select s.SchoolName, s.Suburb, s.City, s.Latitude, s.Longitude,
@g1.STDistance(geography::Point(isnull(s.Latitude,0),isnull(s.Longitude,0),4326))/1000
as distance
from [dbo].[DimAUSchool] s
```

where

```
@g1.STDistance(geography::Point(isnull(s.Latitude,0),isnull(s.Longitude,0),4326))/1000  
<= @within_km  
end
```

**Given suburb and city, display local public transport within 1km radius -
update data sets**

long: 149.092689 lat: -35.43676 within km: 1

1 of 1

Local Transport Within x km

Stop Name	Mode	City	Suburb	Distance
Ellerston Av opp Isabella Plains Shops	bus	Sydney	Isabella	0.998812404107591
Duggan St after Downard St	bus	Sydney	Isabella	0.63913460221551
Duggan St after Beckett St	bus	Sydney	Isabella	0.626798828603408
Duggan St after Tharwa Dr	bus	Sydney	Calwalla	0.919305017087504
Duggan St after Andrew Cr	bus	Sydney	Calwalla	0.93514340875842
Hurtle Av after Noarlunga Cr	bus	Sydney	Isabella	0.632120771708738
Hurtle Av 2nd after Bardolph St	bus	Sydney	Isabella	0.650626797938901
Hurtle Av after Bardolph St	bus	Warwick	Bony Mountain	0.866675624247581

Stored Procedure Used-

USE [PropertyAnalysis_EDW]

GO

/****** Object: StoredProcedure [dbo].[sp_get_Transport_within_range] Script Date:
22/8/2020 10:58:53 AM *****/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

ALTER procedure [dbo].[sp_get_Transport_within_range]

@long float,

@lat float,

@within_km float

as

declare @g1 geography

begin

set @g1 = geography::Point(@lat, @long, 4326)

select t.StopName,t.Mode,t.City,t.Suburb,

```

@g1.STDistance(geography::Point(isnull(t.StopLatitude,0),isnull(t.StopLongitude,0),4326))/1000 as Distance
from [dbo].[TransportStagingTable] t
where
@g1.STDistance(geography::Point(isnull(t.StopLatitude,0),isnull(t.StopLongitude,0),4326))/1000<= 1
and t.StopLatitude <= 90
end

```

Given suburb and city, display median rental value, median yearly income, and value changes of the property within 1 km radius

Suburb	City	ID1BRFlat	ID2BRFlat	ID3BRFlat	ID4BRFlat	ID1BRHouse	ID2BRHouse	ID3BRHouse	ID4BRHouse	distance
Abbotsford	Melbourne	390	510	750			560	720		0
Abbotsford	Sydney	550	620	780			698	800	960	0
Abbotsford	Bundaberg									0
Chiswick	Sydney	550	620	780			698	800	960	0.612426281538837
Wareemba	Sydney	550	620	780			698	800	960	0.497688018608534

Stored Procedure used-

```

USE [PropertyAnalysis_EDW]
GO
/***** Object: StoredProcedure [dbo].[sp_get_propertyrentalmedian_data_within_range]
Script Date: 22/8/2020 11:06:20 AM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
ALTER PROCEDURE [dbo].[sp_get_propertyrentalmedian_data_within_range]

@long float,
@lat float,
@within_km float

as
declare @g1 geography
begin
set @g1 = geography::Point(@lat, @long, 4326)

select tbl.*

from

```

```

(
SELECT
    dg.Suburb,
    c.City,
    fsr.[1BRFlat], fsr.[2BRFlat],fsr.[3BRFlat],fsr.[4BRflat],fsr.
[1BRHouse],fsr.[2BRhouse],fsr.[3BRHouse],fsr.[4BRHouse],
    dg.Longitude,
    dg.Latitude,

    @g1.STDistance(geography::Point(isnull(dg.Latitude,0),isnull(dg.Longitude,0),43
26))/1000 as distance

FROM DimGeography dg
INNER JOIN
FactSuburbRentalMedian fsr ON dg.DimGeographyKey = fsr.DimGeographyKey
INNER JOIN
DimCity c ON fsr.DimCityKey = c.DimCityKey) as tbl
where tbl.distance <= @within_km
END

```

Given suburb and city, display crime rate within 1 km radius

Built-in Fields

Parameters

Images

Data Sources

Datasets

CrimeDataSet

Suburb

City

RecordedIncidents

Offences

Longitude

Latitude

distance

long 151.056519 lat -34.075295 within km 1

1 of 1 100% Find | Next

Crime Rate Within x km

Suburb	City	Recorded Incidents	Offences	Distance
Audley	Sydney	346	Against justice procedures	0
Audley	Sydney	10	Arson	0
Audley	Sydney	190	Assault	0
Audley	Sydney	73	Disorderly conduct	0
Audley	Sydney	464	Drug offences	0
Audley	Sydney	85	Intimidation, stalking and harassment	0

Toolbox Report Data

Stored Procedure Used for Crime Rate-

```
USE [PropertyAnalysis_EDW]
GO
/***** Object:  StoredProcedure [dbo].[sp_get_crime_data_within_range]    Script
Date: 22/8/2020 11:18:08 AM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO

ALTER PROCEDURE [dbo].[sp_get_crime_data_within_range]

@long float,
@lat float,
@within_km float

as
declare @g1 geography
begin
set @g1 = geography::Point(@lat, @long, 4326)

        select tbl.*

        from
        (
        SELECT
                dg.Suburb,
                c.City,
                fc.RecordedIncidents,
                fc.Offences,
                dg.Longitude,
                dg.Latitude,

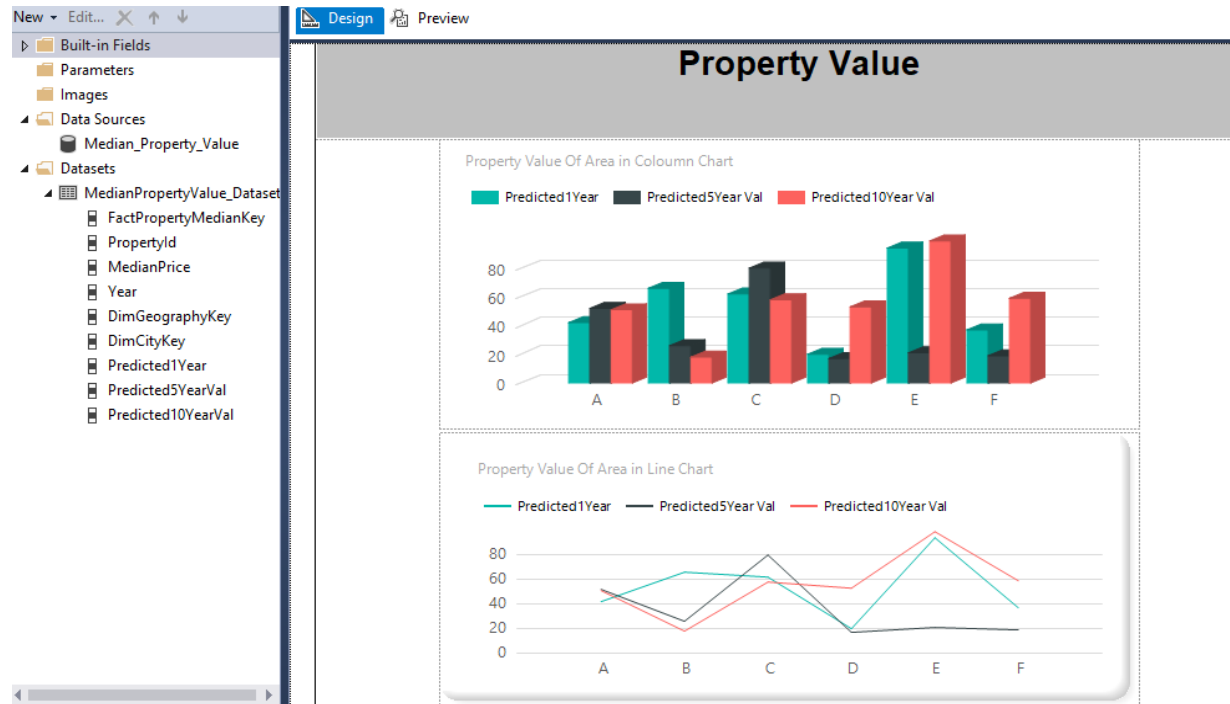
                @g1.STDistance(geography::Point(isnull(dg.Latitude,0),isnull(dg.Longitude,0),4326))/1000 as distance

        FROM DimGeography dg
        INNER JOIN
        FactCrimeSuburbCityTable fc ON dg.DimGeographyKey = fc.DimGeographyKey
        INNER JOIN
        DimCity c ON fc.DimCityKey = c.DimCityKey) as tbl
        where tbl.distance <= @within_km

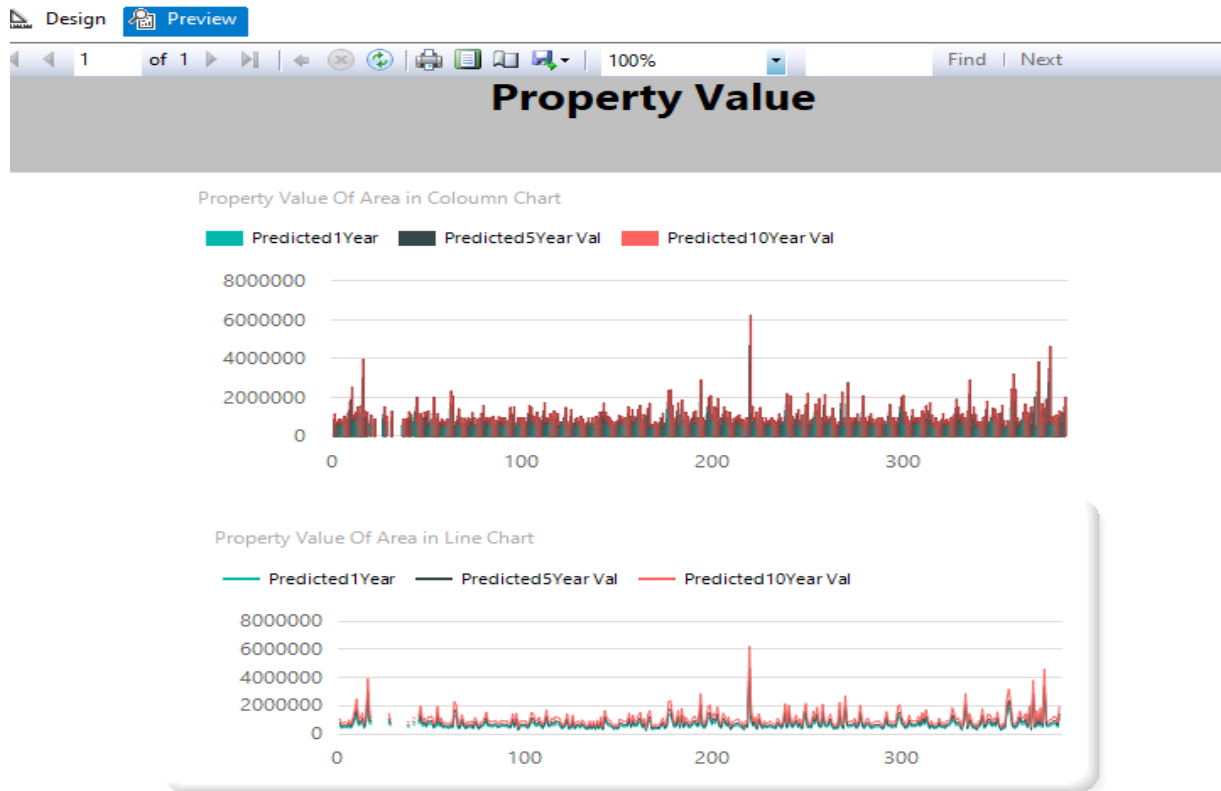
END
```

Given suburb and city, display property value of the area in Column chart and line chart of 1 year, 5 years and 10 years value

Design-



Preview-



Query Used-

```
select fc.*, fc.MedianPrice*1.06 as Predicted1Year, fc.MedianPrice*power(1.06,5) as  
Predicted5YearVal,  
fc.MedianPrice*power(1.06,10) as Predicted10YearVal  
  
from [dbo].[FactMedianPropertyValue] fc  
  
where year = 2018
```