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-- DDI
USE master;
DROP DATABASE IF EXISTS World_Happiness_Report;
CREATE DATABASE World Happiness Report;
ALTER TABLE World Happiness Report.dbo.[Country Year]
DROP CONSTRAINT FK_Regional_ID_CY;
ALTER TABLE World_Happiness_Report.dbo.Dystopia
DROP CONSTRAINT FK Country Year ID DYS;
ALTER TABLE World Happiness Report.dbo.Freedom of Choice
DROP CONSTRAINT FK_Country_Year_ID_FC
ALTER TABLE World Happiness Report.dbo.GDP
DROP CONSTRAINT FK_Country_Year_ID_GDP;
ALTER TABLE World_Happiness_Report.dbo.Generosity
DROP CONSTRAINT FK Country Year ID GEN;
ALTER TABLE World Happiness Report.dbo.Healthy Life Expectancy
DROP CONSTRAINT FK_Country_Year_ID_HLE;
ALTER TABLE World Happiness Report.dbo.Perception of Corruption
DROP CONSTRAINT FK_Country_Year_ID_PoC;
ALTER TABLE World_Happiness_Report.dbo.[Social Support]
DROP CONSTRAINT FK_Country_Year_ID_SS;
GO
DROP TABLE IF EXISTS World_Happiness_Report.dbo.Country_Year;
DROP TABLE IF EXISTS World Happiness Report.dbo.Dystopia;
DROP TABLE IF EXISTS World_Happiness_Report.dbo.Freedom_of_Choice;
DROP TABLE IF EXISTS World_Happiness_Report.dbo.GDP;
DROP TABLE IF EXISTS World Happiness Report.dbo.Generosity;
DROP TABLE IF EXISTS World Happiness Report.dbo.Healthy Life Expectancy;
DROP TABLE IF EXISTS World_Happiness_Report.dbo.Perception_of_Corruption;
DROP TABLE IF EXISTS World Happiness Report.dbo.[Regional Indicator];
DROP TABLE IF EXISTS World Happiness Report.dbo.[Social Support];
GO
-- CREATING THE TABLES
CREATE TABLE World_Happiness_Report.dbo.[Regional_Indicator] (
    Regional ID int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    Regional Indicator varchar(50) NOT NULL
);
GO
CREATE TABLE World_Happiness_Report.dbo.[Country_Year] (
    Country_Year_ID int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    Country Name varchar(50) NOT NULL,
    [Year] int NOT NULL,
    Regional_ID int,
    CONSTRAINT FK_Regional_ID_CY FOREIGN KEY (Regional_ID)
```

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... \verb|Linux|PROJECT|Submissions|script_WorldHappinessReport.sql|
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REFERENCES World Happiness Report.dbo.[Regional Indicator](Regional ID)
);
GO
CREATE TABLE World_Happiness_Report.dbo.[Dystopia] (
    Dystopia_Code int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    Dystopia_log_residual float(10) NOT NULL,
-- Dystopia_value float(10),
    Country Year ID int NOT NULL,
    CONSTRAINT FK_Country_Year_ID_DYS FOREIGN KEY (Country_Year_ID)
    REFERENCES World_Happiness_Report.dbo.Country_Year(Country_Year_ID)
);
GO
CREATE TABLE World_Happiness_Report.dbo.[Freedom_of_Choice] (
    FoC Code int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    Freedom_log_value float(10) NOT NULL,
    Freedom_value float(10),
    Country Year ID int NOT NULL,
    CONSTRAINT FK Country_Year_ID_FC FOREIGN KEY (Country_Year_ID)
    REFERENCES World_Happiness_Report.dbo.Country_Year(Country_Year_ID)
);
GO
CREATE TABLE World_Happiness_Report.dbo.[GDP] (
    GDP_code int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    GDP log value float(10) NOT NULL,
    GDP_Value float(10),
    Country_Year_ID int NOT NULL,
    CONSTRAINT FK_Country_Year_ID_GDP FOREIGN KEY (Country_Year_ID)
    REFERENCES World_Happiness_Report.dbo.Country_Year(Country_Year_ID)
);
GO
CREATE TABLE World_Happiness_Report.dbo.[Generosity] (
    Generosity_Code int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    Generosity_log_value float(10) NOT NULL,
    Generosity_Score float(10) ,
    Country_Year_ID int NOT NULL,
    CONSTRAINT FK Country Year ID GEN FOREIGN KEY (Country Year ID)
    REFERENCES World_Happiness_Report.dbo.Country_Year(Country_Year_ID)
);
GO
CREATE TABLE World_Happiness_Report.dbo.[Healthy_Life_Expectancy] (
    HLE_code int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    HLE log value float(6) NOT NULL,
    Healthy_Life_Expectancy float(10) ,
    Country_Year_ID int NOT NULL,
    CONSTRAINT FK_Country_Year_ID_HLE FOREIGN KEY (Country_Year_ID)
    REFERENCES World_Happiness_Report.dbo.Country_Year(Country_Year_ID)
);
CREATE TABLE World_Happiness_Report.dbo.[Perception_of_Corruption] (
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PoC_Code int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    Corruption_log_value float(10) NOT NULL,
    Corruption_Score float(10) ,
    Country_Year_ID int NOT NULL,
    CONSTRAINT FK Country Year ID PoC FOREIGN KEY (Country Year ID)
    REFERENCES World_Happiness_Report.dbo.Country_Year(Country_Year_ID)
);
GO
CREATE TABLE World_Happiness_Report.dbo.[Social Support] (
    SS_code int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    SS log value float(10) NOT NULL,
    Social Score float(10),
    Country_Year_ID int NOT NULL,
    CONSTRAINT FK Country Year ID SS FOREIGN KEY (Country Year ID)
    REFERENCES World_Happiness_Report.dbo.[Country_Year](Country_Year_ID)
);
-- DML
-- Copy Regional data
INSERT INTO World_Happiness_Report.dbo.[Regional_Indicator]
SELECT DISTINCT Regional_indicator
FROM World Happiness Raw.dbo.WHRFull
WHERE Regional_Indicator IS NOT NULL;
--Copying Country data from each year to database
INSERT INTO World_Happiness_Report.dbo.Country_Year
SELECT fl.Country Name, fl.[Year], NULL
FROM World_Happiness_Raw.dbo.[WHRFull] fl;
--INNER JOIN World_Happiness_Report.dbo.[Regional_Indicator] r ON fl.
  [Regional Indicator] = r.[Regional Indicator]
GO
/*INSERT INTO World_Happiness_Report.dbo.Country_Year
SELECT r.[Regional ID]
FROM World_Happiness_Report.dbo.[Regional_Indicator] r
INNER JOIN World_Happiness_Report.dbo.[Regional_Indicator] r ON fl.
                                                                                     P
  [Regional Indicator] = r.[Regional Indicator];
GO
*/
--Copying Metrics data
INSERT INTO World_Happiness_Report.dbo.[GDP]
--SELECT fl.GDP_log_value, fl.GDP_Value, cy.Country_Year_ID INTO
 World_Happiness_Report.dbo.[GDP]
SELECT fl.GDP_log_value, fl.GDP_Value, cy.Country_Year_ID
FROM World_Happiness_Raw.dbo.[WHRFull] fl
LEFT JOIN World_Happiness_Report.dbo.Country_Year cy
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ON fl.Country_Name = cy.Country_Name
--WHERE fl.[Year] LIKE cy.[Year];
WHERE fl.[Year] = cy.[Year];
GO
INSERT INTO World_Happiness_Report.dbo.[Freedom_of_Choice]
SELECT fl.Freedom_log_value, fl.Freedom_value, cy.Country_Year_ID
FROM World_Happiness_Raw.dbo.[WHRFull] fl
LEFT JOIN World Happiness Report.dbo.Country Year cy
ON fl.Country_Name = cy.Country_Name
WHERE fl.[Year] = cy.[Year];
INSERT INTO World Happiness Report.dbo.[Generosity]
SELECT fl.Generosity_log_value, fl.Generosity_Score, cy.Country_Year_ID
FROM World Happiness Raw.dbo.[WHRFull] fl
LEFT JOIN World_Happiness_Report.dbo.Country_Year cy
ON fl.Country_Name = cy.Country_Name
WHERE fl.[Year] = cy.[Year];
INSERT INTO World_Happiness_Report.dbo.[Healthy_Life_Expectancy]
SELECT fl.HLE_log_value, fl.Healthy_Life_Expectancy, cy.Country_Year_ID
FROM World_Happiness_Raw.dbo.[WHRFull] fl
LEFT JOIN World_Happiness_Report.dbo.Country_Year cy
ON fl.Country_Name = cy.Country_Name
WHERE fl.[Year] = cy.[Year];
INSERT INTO World_Happiness_Report.dbo.[Perception_of_Corruption]
SELECT fl.Corruption_log_value, fl.Corruption_Score, cy.Country_Year_ID
FROM World_Happiness_Raw.dbo.[WHRFull] fl
LEFT JOIN World_Happiness_Report.dbo.Country_Year cy
ON fl.Country Name = cy.Country Name
WHERE fl.[Year] = cy.[Year];
GO
INSERT INTO World_Happiness_Report.dbo.[Social Support]
SELECT fl.SS_log_value, fl.Social_Score, cy.Country_Year_ID
FROM World_Happiness_Raw.dbo.[WHRFull] fl
LEFT JOIN World Happiness Report.dbo.Country Year cy
ON fl.Country_Name = cy.Country_Name
WHERE fl.[Year] = cy.[Year];
INSERT INTO World Happiness Report.dbo.[Dystopia]
SELECT fl.Dystopia log residual, cy.Country Year ID
FROM World Happiness Raw.dbo.[WHRFull] fl
LEFT JOIN World_Happiness_Report.dbo.Country_Year cy
ON fl.Country_Name = cy.Country_Name
WHERE fl.[Year] = cy.[Year];
--Create View that calculates Happiness Ladder Score
DROP VIEW IF EXISTS vwHappinessScore;
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```
CREATE VIEW vwHappinessScore AS
SELECT cy.Country_Name AS Country, cy.[Year] AS [Year], (d.Dystopia_log_residual +
f.Freedom_log_value+p.GDP_log_value+g.Generosity_log_value+h.HLE_log_value
  +c.Corruption_log_value+s.SS_log_value) AS Happiness_Score
FROM World_Happiness_Report.dbo.[Country_Year] cy
FULL OUTER JOIN World Happiness Report.dbo.[Dystopia] d
ON cy.Country_Year_ID = d.Country_Year_ID
FULL OUTER JOIN World_Happiness_Report.dbo.[Freedom_of_Choice] f
ON d.Country Year ID = f.Country Year ID
FULL OUTER JOIN World Happiness Report.dbo.[GDP] p
ON f.Country_Year_ID = p.Country_Year_ID
FULL OUTER JOIN World_Happiness_Report.dbo.[Generosity] g
ON p.Country_Year_ID = g.Country_Year_ID
FULL OUTER JOIN World_Happiness_Report.dbo.[Healthy_Life_Expectancy] h
ON g.Country Year ID = h.Country Year ID
FULL OUTER JOIN World_Happiness_Report.dbo.[Perception_of_Corruption] c
ON h.Country_Year_ID = c.Country_Year_ID
FULL OUTER JOIN World_Happiness_Report.dbo.[Social Support] s
ON c.Country_Year_ID = s.Country_Year_ID;
GO
SELECT * FROM vwHappinessScore
ORDER BY Happiness_Score;
```