

SQL Code

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1  /*
2   Bestand: 3_1_1_Create_tables_datawarehouse.sql
3   Omschrijving: Aanmaken van alle dimensie- en feitentabellen voor Catchem DWH.
4  */
5
6  -- Verwijder tabellen als ze al bestaan (om conflicten te vermijden bij opnieuw runnen)
7  DROP TABLE IF EXISTS Fact_Treasure_Found CASCADE;
8  DROP TABLE IF EXISTS Dim_Treasure_Type CASCADE;
9  DROP TABLE IF EXISTS Dim_Rain CASCADE;
10 DROP TABLE IF EXISTS Dim_User CASCADE;
11 DROP TABLE IF EXISTS Dim_Date CASCADE;
12 DROP TABLE IF EXISTS Dim_Season CASCADE;
13
14 -- 1. Dim_Season
15 CREATE TABLE Dim_Season (
16     SeasonSK SERIAL PRIMARY KEY,
17     SeasonName VARCHAR(50),
18     Hemisphere VARCHAR(20)
19 );
20
21 -- 2. Dim_Date
22 CREATE TABLE Dim_Date (
23     DateSK INT PRIMARY KEY,                               -- Formaat YYYYMMDD
24     FullDate DATE NOT NULL,
25     Day INT,
26     Month INT,
27     MonthName VARCHAR(20),
28     Year INT,
29     Week INT,
30     WeekdayName VARCHAR(20),
31     IsWeekend BOOLEAN
32 );
33
34 -- 3. Dim_User
35 CREATE TABLE Dim_User (
36     UserSK SERIAL PRIMARY KEY,
37     UserID VARCHAR(50) NOT NULL,                         -- Natural Key uit bronssysteem
38     FirstName VARCHAR(100),
39     LastName VARCHAR(100),
40     CityName VARCHAR(100),
41     CountryName VARCHAR(100),
42     ExperienceLevel VARCHAR(50),
43     IsDedicator BOOLEAN,
44     ValidFromDate DATE,
45     ValidToDate DATE,
46     IsCurrent BOOLEAN
47 );
48
49 -- 4. Dim_Rain
50 CREATE TABLE Dim_Rain (
51     RainSK SERIAL PRIMARY KEY,
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52     RainCategory VARCHAR(50),
53     RainCodeRange VARCHAR(50),
54     Description TEXT
55 );
56
57 -- 5. Dim_Treasure_Type
58 CREATE TABLE Dim_Treasure_Type (
59     Treasure_TypeSK SERIAL PRIMARY KEY,
60     TreasureID VARCHAR(50) NOT NULL,          -- Natural Key
61     Difficulty NUMERIC(3,1),
62     Terrain NUMERIC(3,1),
63     NumStages INT,
64     ContainerSize VARCHAR(50),
65     CityName VARCHAR(100)
66 );
67
68 -- 6. Fact_Treasure_Found
69 CREATE TABLE Fact_Treasure_Found (
70     Treasure_FoundID SERIAL PRIMARY KEY,
71     UserSK INT NOT NULL,
72     DateSK INT NOT NULL,
73     SeasonSK INT NOT NULL,
74     RainSK INT NOT NULL,
75     Treasure_TypeSK INT NOT NULL,
76     TreasureLogID VARCHAR(50),
77     Duration_Seconds INT,
78     RecordCreated_Date TIMESTAMP,
79
80     -- Foreign Keys
81     CONSTRAINT fk_fact_user FOREIGN KEY (UserSK) REFERENCES Dim_User(UserSK),
82     CONSTRAINT fk_fact_date FOREIGN KEY (DateSK) REFERENCES Dim_Date(DateSK),
83     CONSTRAINT fk_fact_season FOREIGN KEY (SeasonSK) REFERENCES Dim_Season(SeasonS
K),
84     CONSTRAINT fk_fact_rain FOREIGN KEY (RainSK) REFERENCES Dim_Rain(RainSK),
85     CONSTRAINT fk_fact_treasure FOREIGN KEY (Treasure_TypeSK) REFERENCES Dim_Treasur
e_Type(Treasure_TypeSK)
86 );
```