

SQL Code

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1  /* 3_2_Fill_Fact_Treasure_Found.sql
2      Feitentabel vullen op basis van src_* views (dblink).
3  */
4
5  BEGIN;
6
7  TRUNCATE TABLE Fact_Treasure_Found RESTART IDENTITY CASCADE;
8
9  -- basislog
10 CREATE OR REPLACE VIEW v_fact_base AS
11 SELECT
12     tl.id          AS log_id_bytea,
13     encode(tl.id, 'hex') AS log_id_hex,
14     tl.hunter_id,
15     tl.treasure_id,
16     tl.log_time,
17     tl.session_start
18 FROM src_treasure_log tl;
19 -- eventueel: WHERE tl.log_type = <code voor 'found'>
20
21 -- treasure + city + hemisfeer
22 CREATE OR REPLACE VIEW v_fact_with_location AS
23 SELECT
24     fb.*,
25     t.id          AS treasure_id_bytea,
26     c.latitude,
27     c.city_name,
28     (fb.log_time::date) AS log_date,
29     CASE
30         WHEN c.latitude IS NULL THEN 'Northern'
31         WHEN c.latitude >= 0    THEN 'Northern'
32         ELSE 'Southern'
33     END AS hemisphere
34 FROM v_fact_base fb
35 JOIN src_treasure t
36     ON t.id = fb.treasure_id
37 LEFT JOIN src_city c
38     ON c.city_id = t.city_city_id;
39
40 -- seizoen + duur
41 CREATE OR REPLACE VIEW v_fact_with_season AS
42 SELECT
43     fwl.*,
44     CASE
45         WHEN hemisphere = 'Northern' THEN
46             CASE
47                 WHEN EXTRACT(MONTH FROM log_date) IN (12, 1, 2) THEN 'Winter'
48                 WHEN EXTRACT(MONTH FROM log_date) IN (3, 4, 5) THEN 'Spring'
49                 WHEN EXTRACT(MONTH FROM log_date) IN (6, 7, 8) THEN 'Summer'
50                 ELSE 'Autumn'
51             END
52         WHEN hemisphere = 'Southern' THEN
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53      CASE
54          WHEN EXTRACT(MONTH FROM log_date) IN (12, 1, 2) THEN 'Summer'
55          WHEN EXTRACT(MONTH FROM log_date) IN (3, 4, 5) THEN 'Autumn'
56          WHEN EXTRACT(MONTH FROM log_date) IN (6, 7, 8) THEN 'Winter'
57          ELSE 'Spring'
58      END
59  ELSE
60      CASE
61          WHEN EXTRACT(MONTH FROM log_date) IN (12, 1, 2) THEN 'Winter'
62          WHEN EXTRACT(MONTH FROM log_date) IN (3, 4, 5) THEN 'Spring'
63          WHEN EXTRACT(MONTH FROM log_date) IN (6, 7, 8) THEN 'Summer'
64          ELSE 'Autumn'
65      END
66  END AS season_name,
67 CASE
68     WHEN log_time IS NOT NULL
69         AND session_start IS NOT NULL
70         THEN EXTRACT(EPOCH FROM (log_time - session_start))::int
71         ELSE NULL
72     END AS duration_seconds
73 FROM v_fact_with_location fwl;
74
75 -- 1 default RainSK (Unknown)
76 CREATE OR REPLACE VIEW v_fact_rain_default AS
77 SELECT RainSK
78 FROM Dim_Rain
79 WHERE RainCategory = 'Unknown';
80
81 -- insert in feitentabel
82 INSERT INTO Fact_Treasure_Found (
83     UserSK,
84     DateSK,
85     SeasonSK,
86     RainSK,
87     Treasure_TypeSK,
88     TreasureLogID,
89     Duration_Seconds,
90     RecordCreated_Date
91 )
92 SELECT
93     du.UserSK,
94     dd.DateSK,
95     ds.SeasonSK,
96     dr.RainSK,
97     dtt.Treasure_TypeSK,
98     fws.log_id_hex           AS TreasureLogID,
99     fws.duration_seconds     AS Duration_Seconds,
100    CURRENT_TIMESTAMP        AS RecordCreated_Date
101 FROM v_fact_with_season fws
102 JOIN Dim_User du
103     ON du.UserID = encode(fws.hunter_id, 'hex')
104     AND du.IsCurrent = TRUE
105 JOIN Dim_Treasure_Type dtt
106     ON dtt.TreasureID = encode(fws.treasure_id, 'hex')
107 JOIN Dim_Date dd

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108     ON dd.FullDate = fws.log_date
109   JOIN Dim_Season ds
110     ON ds.SeasonName = fws.season_name
111    AND ds.Hemisphere = fws.hemisphere
112  CROSS JOIN v_fact_rain_default dr;
113
114 COMMIT;
115
```