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| Report 08. Data Warehouse Architecture |

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| REVISION HISTORY | | | | | |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| 1.0 | Initial status | Alina Makarets | 13-NOV-2017 |  |  |

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# Data Modeling Task

Скрипт на создание таблицы DATE\_DIM:

DROP TABLE DATE\_DIM;

CREATE TABLE DATE\_DIM (

"Date\_id" DATE NOT NULL,

"Day\_of\_week" NUMBER(2),

"Day\_name\_of\_week" VARCHAR2(25),

"Day\_of\_month" NUMBER(8),

"Day\_of\_year" NUMBER(8),

"Week\_of\_month" NUMBER(8),

"Week\_of\_year" NUMBER(8),

"Month\_number" NUMBER(8),

"Month\_name" VARCHAR2(20),

"Quarter" NUMBER(2),

"First\_day\_of\_month" DATE,

"Last\_day\_of\_month" DATE,

"Year" NUMBER(8),

"Year-Quater" VARCHAR2(25)

);

ALTER TABLE DATE\_DIM

ADD CONSTRAINT "PK\_DATE\_ID"

PRIMARY KEY ("Date\_id");

Скрипт на заполнения данными таблицы DATE\_DIM:

INSERT INTO Date\_Dim

SELECT SYSDATE+rownum-365\*7 as Date\_id,

to\_number(to\_char(SYSDATE+rownum-365\*7-1, 'D')) as Day\_of\_week,

to\_char(SYSDATE+rownum-365\*7,'Day','NLS\_DATE\_LANGUAGE = RUSSIAN') AS Day\_name\_of\_week,

to\_number(to\_char(extract(day from SYSDATE+rownum-365\*7)))as Day\_of\_month,

to\_number(to\_char(SYSDATE+rownum-365\*7, 'DDD')) AS Day\_of\_year,

to\_number(to\_char(SYSDATE+rownum-365\*7, 'W')) AS Week\_of\_month,

to\_number(to\_char(SYSDATE+rownum-365\*7, 'IW')) AS Week\_of\_year,

to\_number(to\_char(extract(month from SYSDATE+rownum-365\*7))) as Month\_number,

to\_char(SYSDATE+rownum-365\*7, 'MONTH', 'NLS\_DATE\_LANGUAGE=Russian') AS Month\_name,

to\_number(to\_char(SYSDATE+rownum-365\*7, 'Q')) AS Quarter,

to\_date(last\_day(SYSDATE+rownum-365\*7)+1,'DD-MM-YYYY') AS First\_day\_of\_month,

to\_date(last\_day(SYSDATE+rownum-365\*7),'DD-MM-YYYY') AS Last\_day\_of\_month,

to\_number(to\_char(extract(year from SYSDATE+rownum-365\*7))) as Year,

to\_char(extract(year from SYSDATE+rownum-365\*7) || ' '|| to\_char(SYSDATE+rownum-365\*7, 'Q') || ' ' ||'Квартал') as "Year-Quater"

FROM dual

CONNECT BY rownum <=365\*7;

# Analytical task

Представление в 3НФ:

