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| Data Warehouse Architecture |

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| REVISION HISTORY | | | | | |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| 1.0 | Initial status | Arina Marchenko | 09-11-2017 |  |  |

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# Data Modeling Task

1. Creating table DATE\_DIMENSION:

CREATE TABLE Date\_Dimension (

Date\_id DATE NOT NULL,

Day\_per\_week NUMBER(8),

Day\_per\_month NUMBER(8),

Day\_per\_year NUMBER(8),

Week\_per\_month NUMBER(8),

Week\_per\_year NUMBER(8),

Month\_NUMBER NUMBER(8),

Month\_name VARCHAR2(200),

Year NUMBER(8),

Day\_Month VARCHAR2(200),

Year\_Month VARCHAR2(200),

CONSTRAINT Date\_id PRIMARY KEY (Date\_id));

1. Insert into DATE\_DIMENSION:

INSERT INTO Date\_Dimension

SELECT SYSDATE+rownum-365\*1018 as Date\_id,

to\_number(to\_char(SYSDATE+rownum-365\*1018-7\*1, 'D'))as Day\_per\_week,

to\_number(to\_char(extract(day from SYSDATE+rownum-365\*1018)))as Day\_per\_month,

to\_number(to\_char(SYSDATE+rownum-365\*1018, 'DDD')) AS Day\_per\_year,

to\_number(to\_char(SYSDATE+rownum-365\*1018, 'W')) AS Week\_per\_month,

to\_number(to\_char(SYSDATE+rownum-365\*1018, 'IW')) AS Week\_per\_year,

to\_number(to\_char(extract(month from SYSDATE+rownum-365\*1018))) as Month\_number,

to\_char(SYSDATE+rownum-365\*1018, 'MONTH', 'NLS\_DATE\_LANGUAGE=English') AS Month\_name,

to\_number(to\_char(extract(year from SYSDATE+rownum-365\*1018))) as Year,

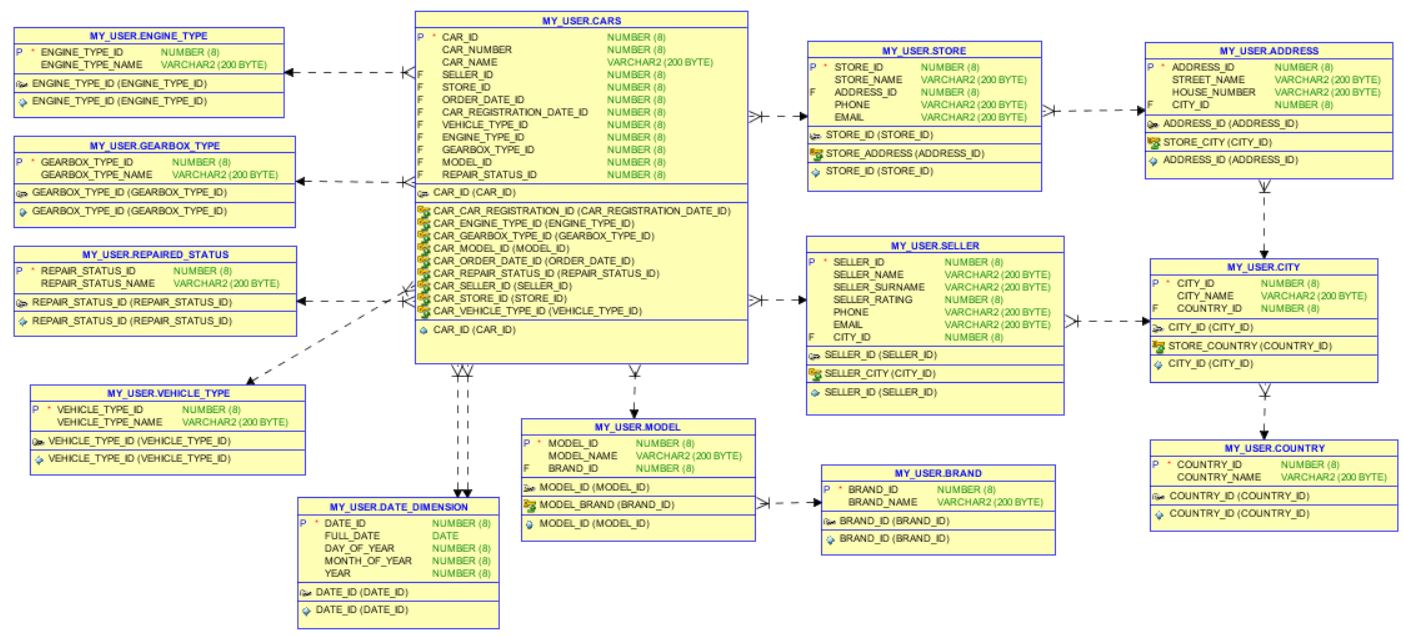
to\_char(extract(day from SYSDATE+rownum-365\*1018) || '-'|| to\_char(extract(month from (SYSDATE+rownum-365\*1018)))) as Day\_Month,

to\_char(extract(year from SYSDATE+rownum-365\*1018) || '-'|| to\_char(extract(month from (SYSDATE+rownum-365\*1018)))) as Year\_Month

FROM dual CONNECT BY rownum <=365\*1018;

# Analytical task

* 3NF layer of Data Warehouse for my business.



* Dimensional Model

