-- ROUTER TRANSFORMATION

TAKE A TABLE CALLED EMP WITH DIFFERENT DEPT NO, EACH DEPT SHALL GOTO ONE TABLE

EMP\_10 (FOR DEPT 10)

EMP\_20 (FOR DEPT 20)

EMP\_30 (FOR DEPT 30)

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-- LOOKUP TRANSFORMATIONS

M\_STUDENT\_SCORE\_LKP

// Scores table is the lookup table

create table scores(

primary\_sub\_id number primary key,

primary\_sub\_name varchar2(20),

min\_score number,

max\_score number,

grade char(1));

insert into scores values(1, 'maths', 20, 100, 'A');

insert into scores values(2, 'social', 50, 100, 'B');

insert into scores values(3, 'chemistry', 40, 100, 'C');

insert into scores values(4, 'kannada', 30, 100, 'D');

-- source qualifier

create table student(

sid number primary key,

sname varchar2(20),

class number(2),

primary\_sub\_id number(2) REFERENCES SCORES(primary\_sub\_id ));

INSERT INTO STUDENT VALUES(101, 'KUMAR', 1, 1);

INSERT INTO STUDENT VALUES(102, 'PRAKASH', 3, 2);

INSERT INTO STUDENT VALUES(103, 'SUMESH', 7, 4);

INSERT INTO STUDENT VALUES(104, 'PAVAN', 9, 1);

INSERT INTO STUDENT VALUES(105, 'HARSHA', 1, 3);

CREATE TABLE T\_LKP\_STUDENTS(

SID NUMBER PRIMARY KEY,

SNAME VARCHAR2(20),

CLASS NUMBER(2),

PRIMARY\_SUB\_ID NUMBER(2),

PRIMARY\_SUB\_NAME varchar2(20),

grade char(1));

---------------------------------------------------------------------------------------------

-- JOINER

CREATE TABLE DEPT(

DEPTID NUMBER PRIMARY KEY,

DEPTNAME VARCHAR(20),

LOCATION VARCHAR(30));

INSERT INTO DEPT VALUES(1, 'ACCOUNT', 'NEW YORK');

INSERT INTO DEPT VALUES(2, 'BANKING', 'BENGALURU');

INSERT INTO DEPT VALUES(3, 'COMPUTER', 'CHENNAI');

INSERT INTO DEPT VALUES(4, 'FINANCE', 'CALIFORNIA');

CREATE TABLE EMPLOYEE(

EMPID NUMBER PRIMARY KEY,

EMPNAME VARCHAR2(30),

EMPSAL NUMBER(9,2),

DEPTID NUMBER REFERENCES DEPT(DEPTID));

INSERT INTO EMPLOYEE VALUES(101, 'SUMESH', 2222, 1);

INSERT INTO EMPLOYEE VALUES(102, 'NAVEEN', 1222, 1);

INSERT INTO EMPLOYEE VALUES(103, 'KUMAR', 3322, 2);

-- target

-- THIS TABLE WILL REJECT THE JOINER WHEN YOU HAVE PRIMARY KEY AS EMPID WILL HAVE NULL VALUES WHICH WILL NOT ALLOW EMPID AS NULL

CREATE TABLE EMP\_DEPT(

EMPID NUMBER PRIMARY KEY,

EMPNAME VARCHAR(23),

EMPSAL NUMBER(9,2),

DEPTID NUMBER,

DEPTNAME VARCHAR(20),

LOCATION VARCHAR(30));

CREATE TABLE EMP\_DEPT(

EMPID NUMBER ,

EMPNAME VARCHAR(23),

EMPSAL NUMBER(9,2),

DEPTID NUMBER,

DEPTNAME VARCHAR(20),

LOCATION VARCHAR(30));

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-- QUERY OVERRIDE

WHEN WE HAVE TWO TABLE AND YOU WANT TO JOIN WHICH IS COMING FROM THE SAME DATABASE THEN WE CAN JOIN IN SOURCE QUALIFIER

M\_EMP\_DEPT\_SQ\_JOIN

CREATE TABLE DEPT\_SQ\_JOIN(

DEPTID NUMBER PRIMARY KEY,

DEPTNAME VARCHAR(20),

LOCATION VARCHAR(30));

INSERT INTO DEPT\_SQ\_JOIN VALUES(1, 'ACCOUNT', 'NEW YORK');

INSERT INTO DEPT\_SQ\_JOIN VALUES(2, 'BANKING', 'BENGALURU');

INSERT INTO DEPT\_SQ\_JOIN VALUES(3, 'COMPUTER', 'CHENNAI');

INSERT INTO DEPT\_SQ\_JOIN VALUES(4, 'FINANCE', 'CALIFORNIA');

CREATE TABLE EMPLOYEE\_SQ\_JOIN(

EMPID NUMBER PRIMARY KEY,

EMPNAME VARCHAR2(30),

EMPSAL NUMBER(9,2),

DEPTID NUMBER REFERENCES DEPT(DEPTID));

INSERT INTO EMPLOYEE\_SQ\_JOIN VALUES(101, 'SUMESH', 2222, 1);

INSERT INTO EMPLOYEE\_SQ\_JOIN VALUES(102, 'NAVEEN', 1222, 1);

INSERT INTO EMPLOYEE\_SQ\_JOIN VALUES(103, 'KUMAR', 3322, 2);

CREATE TABLE EMP\_DEPT\_SQ\_JOIN(

EMPID NUMBER ,

EMPNAME VARCHAR(23),

EMPSAL NUMBER(9,2),

DEPTID NUMBER,

DEPTNAME VARCHAR(20),

LOCATION VARCHAR(30));

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-- NORMALIZED TRANSFORMATION

-- M\_CUSTOMER\_BANK

WHERE CUSTOMER WILL HAVE ACCOUNT WITH MULTIPLE BANKS YES OR NO IF, HE/SHE HAS AN ACCOUNT THEN STORE IT IN THE DB WITH

BELOW STRUCTURE

WILL HAVE A RELATIONAL TABLE

CREATE TABLE NOR\_CUSTOMER\_BANK\_SRC(

CUSTID NUMBER PRIMARY KEY,

NAME VARCHAR2(33),

LOCATION VARCHAR2(30),

ICICIBANK CHAR(1),

CITIBANK CHAR(1),

HDFCBANK CHAR(1),

HSBCBANK CHAR(1));

INSERT INTO NOR\_CUSTOMER\_BANK\_SRC VALUES(1, 'NAVEEN', 'BENGALURU', 'Y','N','N','N');

INSERT INTO NOR\_CUSTOMER\_BANK\_SRC VALUES(2, 'SUNDAR', 'RESTON', 'Y','Y','N','Y');

INSERT INTO NOR\_CUSTOMER\_BANK\_SRC VALUES(3, 'TIM', 'NEY YORK', 'Y','N','Y','Y');

CREATE TABLE T\_NOR\_CUSTOMER\_BANK(

CUSTID NUMBER,

NAME VARCHAR2(33) ,

LOCATION VARCHAR2(30),

BANK VARCHAR2(20));

---------------------------------------------------------------------------------------------

-- NORMALIZED TRANSFORMATION

SOURCE

CREATE TABLE STORES(

STORENAME VARCHAR2(30) PRIMARY KEY,

Q1 NUMBER,

Q2 NUMBER,

Q3 NUMBER,

Q4 NUMBER);

INSERT INTO STORES VALUES('WALMART', 33,44,55,66);

INSERT INTO STORES VALUES('TARGET', 32,11,22,62);

TARGET

CREATE TABLE T\_STORES(

STORENAME VARCHAR2(20),

QUARTER VARCHAR2(20),

REVENUE NUMBER);

--------------------------------------------------------------------------------------------------

UNION & AGGREGATOR

M\_AGG\_UNION\_AMOUNTS

CREATE TABLE UNION\_AMOUNTS(

AMOUNTID NUMBER(10) PRIMARY KEY,

AMOUNT NUMBER(20,2),

DEPTID NUMBER(2));

INSERT INTO UNION\_AMOUNTS VALUES(1, 11111,2);

INSERT INTO UNION\_AMOUNTS VALUES(2, 2222,3);

INSERT INTO UNION\_AMOUNTS VALUES(3, 2222,3);

INSERT INTO UNION\_AMOUNTS VALUES(4, 4444,2);

THEN CREATE A FLAT FILE/CSV WHICH HAS BELOW FIELDS (AMOUNT.DAT)

AMOUNTID,AMOUNT,DEPTID

5,44441,3

6,4332,4

7,4322,2

-- BEFORE COMING TO TARGET TABLE WE WILL FIRST DO THE UNIOn OF FLAT FILE AND TABLE THEN FIND THE AGGREGATOR BASED ON

-- DEPTID

CREATE TABLE T\_UNION\_AMOUNTS(

DEPTID NUMBER(2),

AMOUNT NUMBER(10));

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-- RANK TRANSFORMATION

M\_RNK\_TOP5

CREATE TABLE RNK\_PRODUCT(

STOREID NUMBER PRIMARY KEY,

YEAR NUMBER(4),

Q1 NUMBER(9,2),

Q2 NUMBER(9,2),

Q3 NUMBER(9,2),

Q4 NUMBER(9,2));

INSERT INTO RNK\_PRODUCT VALUES(1, 2016, 33, 22, 11, 23);

INSERT INTO RNK\_PRODUCT VALUES(2, 2017, 323, 22, 11, 88);

INSERT INTO RNK\_PRODUCT VALUES(3, 2016, 343, 22, 111, 73);

INSERT INTO RNK\_PRODUCT VALUES(4, 2016, 123, 121, 17, 73);

INSERT INTO RNK\_PRODUCT VALUES(5, 2016, 13, 22, 111, 73);

INSERT INTO RNK\_PRODUCT VALUES(6, 2016, 43, 22, 111, 73);

INSERT INTO RNK\_PRODUCT VALUES(7, 2013, 13, 22, 111, 73);

INSERT INTO RNK\_PRODUCT VALUES(8, 2012, 1451, 121, 17, 73);

INSERT INTO RNK\_PRODUCT VALUES(9, 2013, 1321, 22, 111, 73);

INSERT INTO RNK\_PRODUCT VALUES(10, 2011, 411, 22, 11341, 73);

CREATE TABLE T\_RNK\_PRODUCT(

YEAR NUMBER(4),

SALES\_MAX5 NUMBER(5));

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