Constraints

Domain Constraint

```
            CREATE DOMAIN id_type       INTEGER  NOT NULL;
CREATE DOMAIN zipcode_type CHAR(05) NOT NULL;
CREATE DOMAIN product_type string   DEFAULT  'DataBase Software';

CREATE TABLE company (id                id_type  GENERATED ALWAYS AS IDENTITY,
                      company_name   STRING   NOT NULL,
                      street_address STRING,
                      city           STRING  NOT NULL,
                      zip_code       zipcode_type,
                      product        product_type);

INSERT INTO company (company_name, street_address, city, zip_code)
        VALUES ('NuoDB,Inc.', 'First Street', 'Cambridge', '02142');
INSERT INTO COMPANY (company_name, street_address, city, zip_code, product)
        VALUES ('NuoDB Corporate','First Street','Cambridge','02142','Corporate');

SELECT * FROM COMPANY;
 ID   COMPANY_NAME    STREET_ADDRESS   CITY     ZIP_CODE     PRODUCT
 --- --------------- ---------------- --------- ---------- ------------------
  1  NuoDB,Inc.      First Street    Cambridge   02142    DataBase Software
  2  NuoDB Corporate First Street    Cambridge   02142    Corporate
```

Domain Constraint

Create DOMAIN Range as Integer Not Null
CHECK (value >=10000 AND value <=100000);

Create table staff (
S_id char(9) PRIMARY KEY,
S_Name varchar(30),
S_Salary Range
);

Format

```
DECLARE @d DATETIME = GETDATE();
SELECT FORMAT( @d, 'dd/MM/yyyy', 'en-US' ) AS 'DateTime Result'
        ,FORMAT(123456789,'###-##-####') AS 'Custom Number Result';
```

```
DateTime Result   Custom Number Result
--------------    --------------------
27/09/2012        123-45-6789

(1 row(s) affected)
```

Create DOMAIN ID as VARCHAR PRIMARYKEY
CHECK (SELECT FORMAT(##k-####));

Supplementary Material

- https://docs.microsoft.com/en-us/previous-versions/sql/sql-server-2012/hh213505(v=sql.110)

- https://www.mssqltips.com/sqlservertip/2655/format-sql-server-dates-with-format-function/

- https://docs.microsoft.com/en-us/previous-versions/sql/sql-server-2012/ms187928%28v%3dsql.110%29