CREATE DATABASE Final;

use Final;

CREATE TABLE CUSTOMER (

IdNo INT NOT NULL AUTO\_INCREMENT UNIQUE ,

F\_Name CHAR NOT NULL,

L\_Name varchar(40) NOT NULL,

Address varchar(40) NOT NULL,

PRIMARY KEY (IdNo)

);

CREATE TABLE PUBLICATION (

PName varchar(100) NOT NULL UNIQUE,

PType varchar(50) NOT NULL,

PRIMARY KEY (PName),

CHECK(PType IN ('Newspaper', 'Magazine'))

);

CREATE TABLE NEWSPAPER (

N\_Name varchar(100) NOT NULL UNIQUE,

N\_Frequency varchar(10),

PRIMARY KEY (N\_Name),

FOREIGN KEY (N\_Name) REFERENCES PUBLICATION(PName)

ON DELETE CASCADE ON UPDATE CASCADE,

CHECK(N\_Frequency IN ('Daily','Weekly'))

);

CREATE TABLE MAGAZINE (

M\_Name varchar(100) NOT NULL UNIQUE,

M\_Frequency varchar(10),

PRIMARY KEY (M\_Name),

FOREIGN KEY (M\_Name) REFERENCES PUBLICATION(PName)

ON DELETE CASCADE ON UPDATE CASCADE,

CHECK(M\_Frequency IN ('Weekly','Monthly','Quarterly'))

);

CREATE TABLE DAILY\_NEWS\_PRICING (

D\_Name varchar(100) NOT NULL,

Daily\_Rate FLOAT,

No\_Of\_Days INT NOT NULL,

PRIMARY KEY (D\_Name,No\_Of\_Days),

FOREIGN KEY (D\_Name) REFERENCES NEWSPAPER(N\_Name)

ON DELETE CASCADE ON UPDATE CASCADE,

CHECK(No\_Of\_Days IN (2,5,7))

);

CREATE TABLE WEEKLY\_NEWS\_PRICING (

W\_Name varchar(100) NOT NULL,

Weekly\_Rate FLOAT,

No\_Of\_Months INT NOT NULL,

PRIMARY KEY (W\_Name,No\_Of\_Months),

FOREIGN KEY (W\_Name) REFERENCES NEWSPAPER(N\_Name)

ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE MAGAZINE\_PRICING (

M\_Name varchar(100) NOT NULL,

M\_Rate FLOAT,

No\_Of\_Issues INT NOT NULL,

PRIMARY KEY (M\_Name,No\_Of\_Issues),

FOREIGN KEY (M\_Name) REFERENCES MAGAZINE(M\_Name)

ON DELETE CASCADE ON UPDATE CASCADE,

CHECK(No\_Of\_Issues IN (12,24))

);

CREATE TABLE MAGAZINE\_SUBSCRIPTION (

IdNo INT NOT NULL,

No\_Of\_Issues INT NOT NULL,

Start\_Date DATE NOT NULL,

End\_Date DATE,

M\_Name varchar(100),

Price FLOAT,

PRIMARY KEY (IdNo, M\_Name, Start\_Date, No\_Of\_Issues),

FOREIGN KEY (IdNo) REFERENCES CUSTOMER(IdNo)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (M\_Name) REFERENCES MAGAZINE\_PRICING(M\_Name)

ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE DAILY\_NEWS\_SUBSCRIPTION (

IdNo INT NOT NULL,

Start\_Date DATE NOT NULL,

End\_Date DATE,

D\_Name VARCHAR(100),

No\_Of\_Days INT NOT NULL,

Price FLOAT,

PRIMARY KEY(IdNo, D\_Name, Start\_Date, No\_Of\_Days),

FOREIGN KEY(IdNo) REFERENCES CUSTOMER(IdNo)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(D\_Name) REFERENCES DAILY\_NEWS\_PRICING(D\_Name)

ON DELETE CASCADE ON UPDATE CASCADE

);

-- Weekly News Subscription Table

CREATE TABLE WEEKLY\_NEWS\_SUBSCRIPTION (

IdNo INT NOT NULL,

Start\_Date DATE NOT NULL,

End\_Date DATE,

W\_Name VARCHAR(100),

No\_Of\_Months INT NOT NULL,

Price FLOAT,

PRIMARY KEY(IdNo, W\_Name, Start\_Date, No\_Of\_Months),

FOREIGN KEY(IdNo) REFERENCES CUSTOMER(IdNo)

ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(W\_Name) REFERENCES WEEKLY\_NEWS\_PRICING(W\_Name)

ON DELETE CASCADE ON UPDATE CASCADE

);