-- deleting the 'mrtechspecs' database if already exists

DROP DATABASE IF EXISTS mrtechspecs;

-- creating database

CREATE DATABASE mrtechspecs;

-- using the database created above

USE mrtechspecs;

CREATE TABLE Manufacturer

(

mname VARCHAR(20) NOT NULL,

headquarters VARCHAR(40)

);

CREATE TABLE Phone

(

id VARCHAR(30) NOT NULL,

displayType VARCHAR(35),

displayResolution VARCHAR(20),

displaySize VARCHAR(20),

selfieCamera VARCHAR(45),

mainCamera VARCHAR(80),

mname VARCHAR(20) NOT NULL,

name VARCHAR(30) UNIQUE NOT NULL,

technology VARCHAR(30),

weight VARCHAR(30),

sound VARCHAR(30),

os VARCHAR(20),

battery VARCHAR(40),

imgSource VARCHAR(150)

);

-- adding primary keys

ALTER TABLE Manufacturer

ADD CONSTRAINT Manufacturer\_PK PRIMARY KEY(mname);

ALTER TABLE Phone

ADD CONSTRAINT Phone\_PK PRIMARY KEY(id, mname);

-- adding foreign keys

ALTER TABLE Phone

ADD CONSTRAINT Phone\_to\_Manufacturer\_FK FOREIGN KEY(mname)

REFERENCES Manufacturer(mname);

-- inserting manufacturers

INSERT INTO Manufacturer(mname, headquarters)

VALUES ('Apple', 'Cupertino, California, United States');

INSERT INTO Manufacturer VALUES ('Samsung', 'Seoul, South Korea');

INSERT INTO Manufacturer VALUES ('Huawei', 'Shenzhen, China');

INSERT INTO Manufacturer VALUES ('Google', 'Mountain View, California, United States');

INSERT INTO Manufacturer VALUES('Sony', 'Minato, Tokyo, Japan');

-- inserting phones

-- Samsung Phones

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('galaxyS10Plus', 'Super AMOLED, 16M colors', '1440 x 3040 pixels', '6.4 inches', 'Dual Camera: 10 MP, f/1.9 and 8 MP f/2.2', 'Triple Camera: 12 MP f/1.5-2.4, 12 MP f/2.4 and 16 MP f/2.2', 'Samsung', 'Samsung Galaxy S10+', 'GSM / CDMA / HSPA / EVDO / LTE',

'175 g (6.17 oz)', 'Stereo Speakers', 'Android 9 (One UI)', 'Non-removable Li-ion 4100 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-81111400/fee\_786\_587\_png/SAMSUNG-GALAXY-S10--128-GB-Prism-Black-Dual-SIM');

-- note 9

INSERT INTO Phone VALUES ('galaxyNote9', 'Super AMOLED, 16M colors', '1440 x 3040 pixels', '6.4 inches', '8MP, f/1.7', 'Dual 12MP f/1.5-2.4', 'Samsung', 'Samsung Galaxy Note 9', 'GSM / CDMA / HSPA / EVDO / LTE',

'201g (7.09 oz)', 'Stereo Speakers', 'Android 9 (One UI)', 'Non-removable Li-ion 4000 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78132903/fee\_786\_587\_png/SAMSUNG-Galaxy-Note9-128-GB-Midnight-Black-Dual-SIM');

-- note 8

INSERT INTO Phone VALUES ('galaxyNote8', 'Super AMOLED, 16M colors', '1440 x 2960 pixels', '6.3 inches', '8MP, f/1.7', 'Dual 12MP f/1.5-2.4', 'Samsung', 'Samsung Galaxy Note 8', 'GSM / HSPA / LTE',

'195 g', 'Stereo Speakers', 'Android 9 (One UI)', 'Non-removable Li-ion 3300 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78145272/fee\_786\_587\_png/SAMSUNG-Galaxy-Note8-64-GB-Midnight-Black-');

-- a9

INSERT INTO Phone VALUES ('galaxyA9', 'Super AMOLED, 16M colors', '1080 x 2220 pixels', '6.3 inches', '24MP, f/2.0', 'Quad Camera: 24 MP f/1.7, 8 MP f/2.4, 10 MP f/2.4 and 5 MP f/2.2', 'Samsung', 'Samsung Galaxy A9', 'GSM / HSPA / LTE',

'183g (6.46 oz)', 'Single Speaker', 'Android 9 (One UI)', 'Non-removable Li-ion 3800 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78940995/fee\_786\_587\_png/SAMSUNG-Galaxy-A9-%282018%29-128-GB-Bubblegum-Pink-Dual-SIM');

INSERT INTO Phone VALUES ('galaxyS9Plus', 'Super AMOLED, 16M colors', '1440 x 2960 pixels', '6.2 inches', '8MP, f/1.7', 'Dual 12MP f/1.5-2.4', 'Samsung', 'Samsung Galaxy S9+', 'GSM / CDMA / HSPA / EVDO / LTE',

'189g (6.67 oz)', 'Dual Speakers', 'Android 9 (One UI)', 'Non-removable Li-ion 3500 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78145252/fee\_786\_587\_png/SAMSUNG-Galaxy-S9--64-GB-Midnight-Black-Dual-SIM');

INSERT INTO Phone VALUES ('galaxyS9', 'Super AMOLED, 16M colors', '1440 x 2960 pixels', '5.8 inches', '8MP, f/1.7', '12MP f/1.5-2.4', 'Samsung', 'Samsung Galaxy S9', 'GSM / CDMA / HSPA / EVDO / LTE',

'163g (5.75 oz)', 'Dual Speakers', 'Android 9 (One UI)', 'Non-removable Li-ion 3000 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-77150564/fee\_786\_587\_png/SAMSUNG-Galaxy-S9-64-GB-Midnight-Black-Dual-SIM');

INSERT INTO Phone VALUES ('galaxyS8Plus', 'Super AMOLED, 16M colors', '1440 x 2960 pixels', '6.2 inches', '8MP, f/1.7', '12MP f/1.7', 'Samsung', 'Samsung Galaxy S8+', 'GSM / HSPA / LTE',

'173g (6.10 oz)', 'Singe Speaker', 'Android 9 (One UI)', 'Non-removable Li-ion 3500 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-77780496/fee\_786\_587\_png/SAMSUNG-Galaxy-S8---Smartphone--64-GB--Midnight-Black');

INSERT INTO Phone VALUES ('galaxyS8', 'Super AMOLED, 16M colors', '1440 x 2960 pixels', '5.8 inches', '8MP, f/1.7', '12MP f/1.7', 'Samsung', 'Samsung Galaxy S8', 'GSM / HSPA / LTE',

'155g (5.47 oz)', 'Single Speaker', 'Android 9 (One UI)', 'Non-removable Li-ion 3000 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-77778867/fee\_786\_587\_png/SAMSUNG-Galaxy-S8--Smartphone--64-GB--Midnight-Black');

INSERT INTO Phone VALUES ('galaxyS7', 'Super AMOLED, 16M colors ', '1440 x 2560 pixels', '5.1 inches', '5MP, f/1.7', '12MP f/1.7', 'Samsung', 'Samsung Galaxy S7', 'GSM / HSPA / LTE',

'152g (5.36 oz)', 'Single Speaker', 'Android 8.0 (Oreo)', 'Non-removable Li-ion 3000 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-70009887/fee\_786\_587\_png/SAMSUNG-Galaxy-S7--Smartphone--32-GB--White-Pearl');

-- iPhones

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('iphoneXsMax', 'Super AMOLED, 16M colors', '1242 x 2688 pixels', '6.5 inches', '7MP, f/2.2', 'Dual 12MP f/1.8-2.4', 'Apple', 'iPhone XS Max', 'GSM / CDMA / HSPA / EVDO / LTE',

'208 g (7.34 oz)', 'Stereo Speakers', 'iOS 12', 'Non-removable Li-ion 3174 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78449595/fee\_786\_587\_png/APPLE-iPhone-XS-Max-64-GB-Gold-Dual-SIM');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('iphoneXs', 'Super AMOLED, 16M colors', '1125 x 2436 pixels', '5.8 inches', '7MP, f/2.2', 'Dual 12MP f/1.8-2.4', 'Apple', 'iPhone XS', 'GSM / CDMA / HSPA / EVDO / LTE',

'177 g (6.24 oz)', 'Stereo Speakers', 'iOS 12', 'Non-removable Li-ion 2658 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78450175/fee\_786\_587\_png/APPLE-iPhone-XS-256-GB-Space-Gray-Dual-SIM');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('iphoneXR', 'IPS LCD, 16M colors', '828 x 1792 pixels', '6.1 inches', '7MP, f/2.2', '12MP f/1.8', 'Apple', 'iPhone XR', 'GSM / CDMA / HSPA / EVDO / LTE',

'194 g (6.84 oz)', 'Stereo Speakers', 'iOS 12', 'Non-removable Li-ion 2942 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78449972/fee\_786\_587\_png/APPLE-iPhone-XR-128-GB-Black-Dual-SIM');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('iphoneX', 'Super AMOLED, 16M colors', '1125 x 2436 pixels', '5.8 inches', '7MP, f/2.2', 'Dual 12MP f/1.8-2.4', 'Apple', 'iPhone X', 'GSM / HSPA / LTE',

'174 g (6.14 oz)', 'Stereo Speakers', 'iOS 12', 'Non-removable Li-ion 2716 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78145226/fee\_786\_587\_png/APPLE-iPhone-X-64-GB-Space-Grey-');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('iphone8', 'LED-backlit IPS LCD, 16M colors', '750 x 1334 pixels', '4.7 inches', '7MP, f/2.2', '12MP f/1.8', 'Apple', 'iPhone 8', 'GSM / HSPA / LTE',

'148 g (5.22 oz)', 'Stereo Speakers', 'iOS 12', 'Non-removable Li-ion 1821 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-76201361/fee\_786\_587\_png/APPLE-iPhone-8-64-GB-Space-Grey-');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('iphone8Plus', 'LED-backlit IPS LCD, 16M colors', '1080 x 1920 pixels', '5.5 inches', '7MP, f/2.2', 'Dual 12MP f/1.8-2.4', 'Apple', 'iPhone 8 Plus', 'GSM / HSPA / LTE',

'202 g (7.13 oz)', 'Stereo Speakers', 'iOS 12', 'Non-removable Li-ion 2691 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-76131342/fee\_786\_587\_png/APPLE-iPhone-8-Plus-64-GB-Space-Grey-');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('iphone7', 'LED-backlit IPS LCD, 16M colors', '750 x 1334 pixels', '4.7 inches', '7MP, f/2.2', '12MP f/1.8', 'Apple', 'iPhone 7', 'GSM / CDMA / HSPA / EVDO / LTE',

'138 g (4.87 oz)', 'Stereo Speakers', 'iOS 12', 'Non-removable Li-ion 1960 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-77775352/fee\_786\_587\_png/APPLE-iPhone-7-32-GB-Schwarz-');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('iphone6s', 'LED-backlit IPS LCD, 16M colors', '750 x 1334 pixels', '4.7 inches', '5MP, f/2.2', '12MP f/2.2', 'Apple', 'iPhone 6s', 'GSM / CDMA / HSPA / EVDO / LTE',

'143 g (5.04 oz)', 'Single Speaker', 'iOS 12', 'Non-removable Li-ion 1715 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-76655991/fee\_786\_587\_png/APPLE-iPhone-6s-32-GB-Space-Grey-');

-- Huawei

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('huaweiMate20Pro', 'AMOLED, 16M colors', '1440 x 3120 pixels', '6.39 inches', '24 MP f/2.0', 'Triple Camera: 40 MP f/1.8, 20 MP f/2.2 and 8 MP f/2.4', 'Huawei', 'Huawei Mate 20 Pro', 'GSM / HSPA / LTE',

'189 g (6.67 oz)', 'Stereo Speakers', 'Android 9.0 (Pie)', 'Non-removable Li-ion 4200 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-79018095/fee\_786\_587\_png/HUAWEI-Mate-20-Pro-128-GB-Twilight-Dual-SIM');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('huaweiMate20X', 'AMOLED, 16M colors', '1080 x 2244 pixels', '7.2 inches', '24 MP f/2.0', 'Triple Camera: 40 MP f/1.8, 20 MP f/2.2 and 8 MP f/2.4', 'Huawei', 'Huawei Mate 20 X', 'GSM / HSPA / LTE',

'232 g (8.18 oz)', 'Stereo Speakers', 'Android 9.0 (Pie)', 'Non-removable Li-ion 5000 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-79677823/fee\_786\_587\_png');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('huaweiMate20Lite', 'LTPS IPS LCD, 16M colors', '1440 x 3120 pixels', '6.3 inches', 'Dual Camera: 20MP f/1.8 and 2MP depth sensor', 'Dual Camera: 12 MP f/2.0 and 2 MP depth sensor', 'Huawei', 'Huawei Mate 20 Lite', 'GSM / HSPA / LTE',

'172 g (6.07 oz)', 'Single Speaker', 'Android 8.1 (Oreo)', 'Non-removable Li-ion 3750 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78310674/fee\_786\_587\_png');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('huaweiP20Pro', 'AMOLED, 16M colors', '1080 x 2244 pixels', '6.1 inches', '24 MP f/2.0', 'Triple Camera: 40 MP f/1.8, 20 MP f/1.6 and 8 MP f/2.4', 'Huawei', 'Huawei P20 Pro', 'GSM / HSPA / LTE',

'180 g (6.35 oz)', 'Stereo Speakers', 'Android 8.1 (Oreo)', 'Non-removable Li-ion 4000 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78145257/fee\_786\_587\_png/HUAWEI-P20-Pro-128-GB-Schwarz-Dual-SIM');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('huaweiP20', 'LTPS IPS LCD, 16M colors', '1080 x 2244 pixels', '5.8 inches', '24 MP f/2.0', 'Dual Camera: 12 MP f/1.8 and 20 MP f/1.6', 'Huawei', 'Huawei P20', 'GSM / HSPA / LTE',

'165 g (5.82 oz)', 'Stereo Speakers', 'Android 8.1 (Oreo)', 'Non-removable Li-ion 3400 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78145286/fee\_786\_587\_png/HUAWEI-P20-128-GB-Midnight-Black-Dual-SIM');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('huaweiP20Lite', 'LTPS IPS LCD, 16M colors', '1080 x 2280 pixels', '5.84 inches', '24 MP f/2.0', 'Dual Camera: 16 MP f/2.2 and 2 MP depth sensor', 'Huawei', 'Huawei P20 Lite', 'GSM / HSPA / LTE',

'145 g (5.11 oz)', 'Single Speaker', 'Android 8.0 (Oreo)', 'Non-removable Li-ion 3000 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-77267865/fee\_786\_587\_png/HUAWEI-P20-Lite-64-GB-Midnight-Black-Dual-SIM');

-- Google

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('googlePixel3Xl', 'P-OLED, 16M colors', '1440 x 2960 pixels', '6.3 inches', 'Dual 8 MP f/1.8-2.2', '12.2 f/1.8', 'Google', 'Goolge Pixel 3XL', 'GSM / CMDA / HSPA / EVDO / LTE',

'184 g (6.49 oz)', 'Stereo Speakers', 'Android 9.0 (Pie)', 'Non-removable Li-ion 3430 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78911676/fee\_786\_587\_png/GOOGLE-Pixel-3-XL-64-GB-Just-Black-');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('googlePixel3', 'P-OLED, 16M colors', '1080 x 2160 pixels', '5.5 inches', 'Dual 8 MP f/1.8-2.2', '12.2 f/1.8', 'Google', 'Google Pixel 3', 'GSM / CMDA / HSPA / EVDO / LTE',

'148 g (5.22 oz)', 'Stereo Speakers', 'Android 9.0 (Pie)', 'Non-removable Li-ion 2915 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78908366/fee\_786\_587\_png/GOOGLE-Pixel-3-64-GB-Clearly-White-');

-- Sony

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('sonyXZ3', 'P-OLED, 16M colors', '1440 x 2880 pixels', '6.0 inches', '13 MP f/1.9', '19 MP f/2.0', 'Sony', 'Sony XZ3', 'GSM / HSPA / LTE',

'193 g (6.81 oz)', 'Stereo Speakers', 'Android 9.0 (Pie)', 'Non-removable Li-ion 3300 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78309536/fee\_786\_587\_png');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('sonyXZ2', 'IPS LCD, 16M colors', '1080 x 2160 pixels', '5.7 inches', '5 MP f/2.2', '19 MP f/2.0', 'Sony', 'Sony XZ2', 'GSM / HSPA / LTE',

'198 g (6.98 oz)', 'Stereo Speakers', 'Android 8.0 (Pie)', 'Non-removable Li-ion 3180 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78111146/fee\_786\_587\_png');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('sonyXA2Plus', 'IPS LCD, 16M colors', '1080 x 2160 pixels', '6.0 inches', '8 MP f/2.4', '23 MP, f/2.0', 'Sony', 'Sony XA2 Plus', 'GSM / HSPA / LTE',

'205 g (7.23 oz)', 'Single Speaker', 'Android 8.0 (Pie)', 'Non-removable Li-ion 3580 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-78111034/fee\_786\_587\_png/SONY-Xperia-XA2-Plus-32-GB-Gold-Dual-SIM');

INSERT INTO Phone (id, displayType, displayResolution, displaySize, selfieCamera, mainCamera, mname, name, technology, weight, sound, os, battery, imgSource)

VALUES ('sonyXA2', 'IPS LCD, 16M colors', '1080 x 1920 pixels', '5.2 inches', '8 MP f/2.4', '23 MP, f/2.0', 'Sony', 'Sony XA2', 'GSM / HSPA / LTE',

'171 g (6.03 oz)', 'Single Speaker', 'Android 8.0 (Pie)', 'Non-removable Li-ion 3300 mAh battery',

'https://picscdn.redblue.de/doi/pixelboxx-mss-76862682/fee\_786\_587\_png');