DROP DATABASE IF EXISTS GroceryStore;

CREATE DATABASE GroceryStore;

SHOW DATABASES;

USE GroceryStore;

//---------------------------CREATE TABLE-----------------------------------------------

CREATE TABLE Customer(

customerId VARCHAR(6) PRIMARY KEY,

name VARCHAR(30)NOT NULL,

address VARCHAR(30),

salary DECIMAL(10,2)

);

DESCRIBE Customer;

//--------------------INSERT VALUE TO Customer------------------------------------------

INSERT INTO Customer VALUES('C001','Danapala','Panadura',54000);

INSERT INTO Customer VALUES('C002','Gunapala','Matara',44000);

INSERT INTO Customer VALUES('C003','Somapala','Galle',82000);

INSERT INTO Customer VALUES('C004','Siripala','Galle',24000);

INSERT INTO Customer VALUES('C005','Jinadasa','Panadura',94000);

SELECT \* FROM Customer;

//------------------ADD NEW FIELD-----------------------------------------

ALTER TABLE Customer ADD Email varchar(25);

DESC Customer;

SELECT \* FROM Customer;

ALTER TABLE Customer ADD Description varchar(50) FIRST;

DESC Customer;

SELECT \* FROM Customer;

ALTER TABLE Customer ADD Location varchar(50) AFTER Description;

DESC Customer;

SELECT \* FROM Customer;

//------------------DROP FIELD--------------------------------------------

ALTER TABLE Customer DROP Description;

ALTER TABLE Customer DROP Location;

DESC Customer;

SELECT \* FROM Customer;

//------------------RENAME FIELD------------------------------------------

ALTER TABLE Customer RENAME COLUMN Email TO Gmail;

DESC Customer;

SELECT \* FROM Customer;

//------------------MODIFY FIELD DATA TYPE--------------------------------

ALTER TABLE Customer MODIFY COLUMN Email char(25);

DESC Customer;

//------------------RENAME TABLE NAME-------------------------------------

ALTER TABLE Customer RENAME CustomerDetails;

SHOW TABLES;

DESC CustomerDetails;

//============================================

ALTER TABLE CustomerDetails RENAME Customer;

//---------------[PRIMARY KEY CONSTRAINT]----------------------------------------------------------

CREATE TABLE CustomerRecord(

customerId VARCHAR(6),

name VARCHAR(30)NOT NULL,

address VARCHAR(30),

contact VARCHAR(15) UNIQUE,

salary DECIMAL(10,2),

CONSTRAINT PRIMARY KEY (customerId)

);

DESCRIBE CustomerRecord;

//---------------[FOREIGN KEY CONSTRAINT]----------------------------------------------------------

CREATE TABLE Orders(

orderId VARCHAR(6),

date DATE,

customerId VARCHAR(6) NOT NULL,

CONSTRAINT PRIMARY KEY (orderId),

CONSTRAINT FOREIGN KEY(customerId) REFERENCES CustomerRecord(customerId)

);

DESC Orders;

//--------------------INSERT VALUE TO CustomerRecord------------------------------------------

INSERT INTO CustomerRecord VALUES('C001','Danapala','Panadura','07712345',54000);

INSERT INTO CustomerRecord VALUES('C002','Gunapala','Matara','07712344',44000);

INSERT INTO CustomerRecord VALUES('C003','Somapala','Galle','07712343',82000);

INSERT INTO CustomerRecord VALUES('C004','Siripala','Galle','07712342',24000);

INSERT INTO CustomerRecord VALUES('C005','Jinadasa','Panadura','07712341',94000);

SELECT \* FROM CustomerRecord;

//--------------------INSERT VALUE TO Orders-------------------------

INSERT INTO Orders VALUES('D001','2008-2-15','C001');

INSERT INTO Orders VALUES('D002','2008-2-15','C005');

INSERT INTO Orders VALUES('D003','2008-2-20','C003');

INSERT INTO Orders VALUES('D004','2008-2-28','C002');

INSERT INTO Orders VALUES('D005','2008-3-20','C001');

SELECT \* FROM Orders;

//-----------------CHECK--------------------------------------------------

CREATE TABLE CustomerInfo(

customerId VARCHAR(6),

name VARCHAR(30),

age INT(2) CHECK (age<=18),

address VARCHAR(30) CHECK (address="Galle"),

salary FLOAT(10,2),

CONSTRAINT PRIMARY KEY (customerId)

);

DESC CustomerInfo;

//---------------CHECK VALUES-----------------------------------------------

INSERT INTO CustomerInfo(customerId, name,age, address) VALUES ('C006','Sepalika',18,'Galle');

INSERT INTO CustomerInfo(customerId, name,age, address) VALUES ('C007','Sepalika',28,'Galle');

INSERT INTO CustomerInfo(customerId, name,age, address) VALUES ('C008','Sepalika',8,'Galle');

INSERT INTO CustomerInfo(customerId, name,age, address) VALUES ('C009','Sepalika',8,'Panadura');

//---------------------------------DEFAULT-----------------------------------------------------

CREATE TABLE StudentDetails(

studentId VARCHAR(6),

name VARCHAR(30),

age INT(2) CHECK (age<=18),

address VARCHAR(30) DEFAULT "Galle",

fee FLOAT(10,2),

CONSTRAINT PRIMARY KEY (studentId)

);

DESC StudentDetails;

INSERT INTO StudentDetails(studentId, name,age, address) VALUES ('S001','Saman',16,'Panadura');

SELECT \* FROM StudentDetails;

INSERT INTO StudentDetails(studentId, name,age) VALUES ('S002','Sepalika',18);

SELECT \* FROM StudentDetails;

=======================================================================================

CREATE TABLE CustomerInformation(

customerId VARCHAR(6),

name VARCHAR(30),

address VARCHAR(30),

contact VARCHAR(15),

salary DECIMAL(10,2),

CONSTRAINT PRIMARY KEY (customerId)

);

DESCRIBE CustomerInformation;

==//Remove Primary key=====================================================

ALTER TABLE CustomerInformation DROP PRIMARY KEY;

DESC CustomerInformation;

======//Add Primarykey=====================================================

ALTER TABLE CustomerInformation ADD PRIMARY KEY(CustomerID, Name);

//DESC CustomerInformation;

=======//Add UNIQUE=====================================================

ALTER TABLE CustomerInformation ADD CONSTRAINT UNIQUE (contact);

DESC CustomerInformation;

=======//Remove UNIQUE==================================================

ALTER TABLE CustomerInformation DROP CONSTRAINT contact;

DESC CustomerInformation;

//Add NOT NULL ====================================================================

ALTER TABLE CustomerInformation MODIFY address VARCHAR(30) NOT NULL;

DESC CustomerInformation;

//Remove NOT NULL ====================================================================

ALTER TABLE CustomerInformation MODIFY address VARCHAR(30) ;

DESC CustomerInformation;

//-------------------ENUM---------------------------------------------------------------------

CREATE TABLE Student(

studentId VARCHAR(6),

name VARCHAR(30),

gender ENUM ('MALE','FEMALE','OTHER'),

age INT(2) CHECK (age<=18),

address VARCHAR(30) DEFAULT 'Galle',

fee FLOAT(10,2),

CONSTRAINT PRIMARY KEY (studentId)

);

DESC Student;

INSERT INTO Student(studentId, name,gender,age) VALUES ('S001','Sepalika','FEMALE',18);

INSERT INTO Student(studentId, name,gender,age) VALUES ('S002','Kamal',1,15);

INSERT INTO Student(studentId, name,gender,age) VALUES ('S003','Kasuni','ABC',18);

SELECT \* FROM Student;

//====================Extra==================================

CREATE TABLE Book(

BookCode VARCHAR(5) PRIMARY KEY,

BookName VARCHAR(30),

Author VARCHAR(30),

Price DECIMAL(10,2)

);

DESCRIBE Book;

INSERT INTO Book VALUES('B001','Maths','Kamal',540);

INSERT INTO Book VALUES('B002','English','Nimal',440)

#ERROR ---- Put ; Then press Enter Key

INSERT INTO Book VALUES('B003','Science2','Amal,100);

#ERROR ---- Press '\c

INSERT INTO Book VALUES('B006','Science2',"Amal,100);

#ERROR ---- Press "\c