/\*Q.1.Make 3 tables in the database using sql query where tables must be your

info.table with many data types, employee tble and staff table unit 4. \*/

/\* A.1. Staff table yo xai \*/

CREATE TABLE tbl\_staff(

StaffID int Primary key,

FirstName varchar(255) ,

Addresspl varchar(255),

Contact int,

Department varchar(255)

);

/\* tabling garda kei mistake vayo vane feri drop garera delete garera feri table create garnu parx \*/

DROP TABLE tbl\_staff;

/\* yeslay xai staff table show garx\*/

SELECT \* FROM tbl\_staff;

/\*A.2. Employee table yo xai \*/

CREATE TABLE tbl\_employee(

EmpID int,

Name varchar(255),

Address varchar(255),

CodeBranch int,

Branch varchar(225)

);

/\* yeslay xai employee table show garx\*/

SELECT \* FROM tbl\_employee;

/\* tabling garda kei mistake vayo vane feri drop garera delete garera feri table create garnu parx \*/

DROP TABLE tbl\_employee

/\* yeslay xai employee table show garx after deleting\*/

SELECT \* FROM tbl\_employee;

/\*A.3. Mero Table\*/

CREATE TABLE Prince(

Name varchar(255),

Address varchar(255),

Phone int,

Gmail varchar(225)

);

/\*Display garx prince table lai\*/

SELECT \* FROM prince;

/\* tabling garda kei mistake vayo vane feri drop garera delete garera feri table create garnu parx \*/

DROP TABLE prince;

/\* yeslay xai prince table show garx after deleting\*/

SELECT \* FROM prince;

/\*Q.2.Make 3 tables in the database using sql query where tables must be your

info.table with many data types, employee tble and staff table unit 4.

--Alter teacher, datatype as integers.\*/

/\*A.1.Creating Teacher Table \*/

CREATE TABLE Teacher(

ID int NOT NULL,

LastName varchar(255) NOT NULL,

FirstName varchar(255) NOT NULL,

Contact int,

Address varchar(255),

Age int

);

/\*A.1.1.Displaying \*/

SELECT \*FROM Teacher;

/\*A.1.2.Altering in the Teacher table by adding the Gmail column \*/

ALTER TABLE Teacher

ADD Gmail varchar(255);

/\* A.1.3.Displaying \*/

SELECT \*FROM Teacher;

/\*A.1.4.Altering in the Teacher table by deleting the Gamil column only \*/

ALTER TABLE Teacher

DROP COLUMN Gmail;

/\*A.1.5.Displaying \*/

--

SELECT \*FROM Teacher;

/\*A.1.6.Altering in theTeacher table by adding gmail column again which is delete above \*/

ALTER TABLE Teacher

ADD Gmail varchar(255);

/\*A.1.7.Display \*/

SELECT \*FROM Teacher;

/\*A.1.8.Altering in the Teacher table by altering in the gmail column (varchar to integer) \*/

ALTER TABLE Teacher

ALTER COLUMN Gmail int;

/\*A.1.9.Displaying \*/

SELECT \*FROM Teacher;

/\*A.2. Employee table \*/

CREATE TABLE tbl\_employee(

EmpID int,

Name varchar(255),

Address varchar(255),

CodeBranch int,

Branch varchar(225)

);

/\*A.2.1.Displaying \*/

SELECT \*FROM tbl\_employee;

/\*A.1.2.Altering in the Teacher table by adding the Phone column \*/

ALTER TABLE tbl\_employee

ADD Phone int;

/\* A.2.3.Displaying \*/

SELECT \*FROM tbl\_employee;

/\*A.2.4.Altering in the Teacher table by deleting the Phone column only \*/

ALTER TABLE tbl\_employee

DROP COLUMN Phone;

/\*A.2.5.Displaying \*/

SELECT \*FROM tbl\_employee;

/\*A.2.6.Altering in theTeacher table by adding gmail column again which is delete above \*/

ALTER TABLE tbl\_employee

ADD Phone int;

/\*A.2.7.Display \*/

SELECT \*FROM tbl\_employee;

/\*A.2.8.Altering in the Teacher table by altering in the Phone column (varchar to integer) \*/

ALTER TABLE tbl\_employee

ALTER COLUMN Gmail varchar(225);

/\*A.2.9.Displaying \*/

SELECT \*FROM tbl\_employee;

/\*A.3. Mero Table\*/

CREATE TABLE Prince(

ID int,

Name varchar(255),

Address varchar(255),

Phone int,

Gmail varchar(225)

);

/\*A.3.1.Displaying \*/

SELECT \*FROM Prince;

/\*A.3.2.Altering in the Teacher table by adding the Course column \*/

ALTER TABLE Prince

ADD Course varchar(255);

/\* A.3.3.Displaying \*/

SELECT \*FROM Prince;

/\*A.3.4.Altering in the Teacher table by deleting the Course column only \*/

ALTER TABLE Prince

DROP COLUMN Course;

/\*A.3.5.Displaying \*/

SELECT \*FROM Prince;

/\*A.1.6.Altering in theTeacher table by adding Course column again which is delete above \*/

ALTER TABLE Prince

ADD Course varchar(255);

/\*A.3.7.Display \*/

SELECT \*FROM Prince;

/\*A.3.8.Altering in the Teacher table by altering in the Course column (varchar to integer) \*/

ALTER TABLE Prince

ALTER COLUMN Course int;

/\*A.3.9.Displaying \*/

SELECT \*FROM Prince;

/\*Q.3.Make 3 tables in the database using sql query where tables must be your

info.table with many data types, employee tble and staff table unit 4.

--Add constraints to the columns.

--NOT NULL, UNIQUE, PK, FK\*/

/\*A.1.UNQUIE\*/

CREATE TABLE Rajkumar(

ID int NOT NULL UNIQUE,

LastName varchar(255)NOT NULL,

FirstName varchar(255),

Age int

CONSTRAINT UC\_RAJKUMAR UNIQUE(ID,LastName)

);

/\*Displaying\*/

SELECT \* FROM Rajkumar;

ALTER TABLE Rajkumar

DROP CONSTRAINT UC\_RAJKUMAR;

/\*deleting\*/

DROP TABLE Rajkumar;

/\*A.2.PRIMARY KEY \*/

CREATE TABLE Rajkumars(

ID int NOT NULL PRIMARY KEY,

LastName varchar(255)NOT NULL,

FirstName varchar(255),

Age int

);

/\*Displaying\*/

SELECT \* FROM Rajkumars;

/\* During Altering table\*/

ALTER TABLE Rajkumars

ADD PRIMARY KEY(ID);

/\*Displaying\*/

SELECT \* FROM Rajkumars;

/\* To allow naming of a PRIMARY KEY constraint, and for defining a PRIMARY KEY constraint on multiple columns\*/

CREATE TABLE Rajkumars(

ID int NOT NULL,

LastName varchar(255)NOT NULL,

FirstName varchar(255,

Age int,

CONSTRIANT PK\_RAJKUMARS PRIMARY KEY(ID,LastName)

);

/\*Displaying\*/

SELECT \* FROM Rajkumars;

ALTER TABLE Rajkumars

ADD CONSTRAINT PK\_RAJKUMARS PRIMARY KEY(ID,LastName);

/\*Displaying\*/

SELECT \* FROM Rajkumars;

ALTER TABLE Rajkumars

DROP CONSTRAINT PK\_RAJKUMARS;

/\*Displaying\*/

SELECT \* FROM Rajkumars;

/\*A.3.FOREIGN KEY\*/

CREATE TABLE Purchase(

ItemID int NOT NULL PRIMARY KEY,

ItemNumber int NOT NULL,

PersonID int

);

/\*Displaying\*/

SELECT \* FROM Purchase;

DROP TABLE Purchase;

ALTER TABLE Rajkumars

ADD FOREIGN KEY (PersonsID) REFERENCES Rajkumars(ID);

/\*FOREIGN KEY constraint\*/

CREATE TABLE Purchase(

ItemID int NOT NULL,

ItemNumber int NOT NULL,

PersonID int,

PRIMARY KEY(ItemID),

CONSTRAINT FK\_PersonPurchase FOREIGN KEY(PersonID)

REFERENCES Rajkumars(ID)

);

/\*Displaying\*/

SELECT \* FROM Purchase;

ALTER TABLE Purchase

ADD CONSTRAINT FK\_PersonPurchase

FOREIGN KEY(PersonID) REFERENCES Rajkumars(ID);

/\*Displaying\*/

SELECT \* FROM Purchase;

ALTER TABLE Purchase

DROP CONSTRAINT FK\_PersonPurchase;

/\*Displaying\*/

SELECT \* FROM Purchase;

/\*Q.4.Make 3 tables in the database using sql query where tables must be your info.table

with many data types, employee tble and staff table unit 4.

--CHECK,DEFAULT

Use both create and alter for all 3 tables\*/

DROP TABLE Prince;

CREATE TABLE Prince(

ID int,

Name varchar(255),

Address varchar(255),

Phone int,

Gmail varchar(225)

Age int CHECK (Age>=18)

);

ALTER TABLE Prince

ADD CHECK (Age>=18);

/\*--To allow naming of a CHECK constraint, and for defining a CHECK constraint on multiple columns\*/

ALTER TABLE Prince

ADD CONSTRAINT CHK\_PrinceAge CHECK (Age>=18); ---changing

ALTER TABLE Prince

DROP CONSTRAINT CHECK CHK\_PrinceAge; ---deleting

/\* --Default- set a default value for a column if no value is specified \*/

DROP TABLE Prince; ---delelting

CREATE TABLE Prince(

ID int NOT NULL,

Name varchar(255)NOT NULL,

Address varchar(255) DEFAULT 'Nepal',

Phone int,

Gmail varchar(225)

Age int

);

ALTER TABLE Prince

ADD CONSTRAINT df\_City

DEFAULT 'Kathmandu' FOR Address; --changing

ALTER TABLE Prince

DROP CONSTRAINT df\_Address; ---deleleting

--shkdlfs