SET 1

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1. create a database called **'assignment'** (Note please do the assignment tasks in this database)

create dtabase assignment;

1. Create the tables from ConsolidatedTables.sql and enter the records as specified in it.

Done

3. Create a table called **countries** with the following columns

***name, population, capital***

***create table countries (name varchar(255),***

***population integer,***

***capital varchar(255));***

- choose appropriate datatypes for the columns

a) Insert the following data into the table

China 1382 Beijing

India 1326 Delhi

United States 324 Washington D.C.

Indonesia 260 Jakarta

Brazil 209 Brasilia

Pakistan 193 Islamabad

Nigeria 187 Abuja

Bangladesh 163 Dhaka

Russia 143 Moscow

Mexico 128 Mexico City

Japan 126 Tokyo

Philippines 102 Manila

Ethiopia 101 Addis Ababa

Vietnam 94 Hanoi

Egypt 93 Cairo

Germany 81 Berlin

Iran 80 Tehran

Turkey 79 Ankara

Congo 79 Kinshasa

France 64 Paris

United Kingdom 65 London

Italy 60 Rome

South Africa 55 Pretoria

Myanmar 54 Naypyidaw

insert into countries values("China",1382,"Beijing"),

("India",1326,"Delhi"),

("United States",324,"Washington D.C."),

("Indonesia",260,"Jakarta"),

("Brazil",209,"Brasilia"),

("Pakistan",193,"Islamabad"),

("Nigeria",187,"Abuja"),

("Bangladesh",163,"Dhaka"),

("Russia",143,"Moscow"),

("Mexico",128,"Mexico City"),

("Japan",126,"Tokyo"),

("Philippines",102,"Manila"),

("Ethiopia",101,"Addis Ababa"),

("Vietnam",94,"Hanoi"),

("Egypt",93,"Cairo"),

("Germany",81,"Berlin"),

("Iran",80,"Tehran"),

("Turkey",79,"Ankara"),

("Congo",79,"Kinshasa"),

("France",64,"Paris"),

("United Kingdom",65,"London"),

("Italy",60,"Rome"),

("South Africa",55,"Pretoria"),

("Myanmar",54,"Naypyidaw");

b) Add a couple of countries of your choice

insert into countries values("Canada",100,"Ottawa"),

("Finland",50,"Helsinki");

c) Change ‘Delhi' to ‘New Delhi'

update countries set capital = "New Delhi" where capital ="Delhi";

4. Rename the table countries to big\_countries .

Alter table countries rename to big\_countries;

5. Create the following tables. Use auto increment wherever applicable

a. Product

product\_id - primary key

product\_name - cannot be null and only unique values are allowed

description

supplier\_id - foreign key of supplier table

create table Product (product\_id integer primary key auto\_increment,

product\_name varchar(255),

supplier\_id integer,

foreign key(supplier\_id) references Suppliers(supplier\_id)

on delete cascade

on update cascade);

b. Suppliers

supplier\_id - primary key

supplier\_name

location

create table Suppliers(supplier\_id integer primary key auto\_increment,

supplier\_name varchar(255),

location varchar(255));

c. Stock

id - primary key

product\_id - foreign key of product table

balance\_stock

create table stock (id integer primary key auto\_increment,

product\_id integer,

balance\_stock integer,

foreign key (product\_id) references Product(product\_id)

on delete cascade

on update cascade);

6. Enter some records into the three tables.

insert into suppliers(supplier\_name,location) values ("kumar","Bangalore"),("Nayak","Delhi"),("Joshi","Pune"),("Krishna","Goa"),("Robert","Chennai");

insert into product(product\_name,supplier\_id) values ("Milk",4),("Fruits",3),("Vegetables",5),("Panner",2),("Shoes",1);

insert into stock(product\_id,balance\_stock) values (2,50),(3,77),(5,27),(4,80),(1,100);

7. Modify the supplier table to make supplier name unique and not null.

alter table Suppliers modify column supplier\_name varchar(255) unique not null;

8. Modify the emp table as follows

1. Add a column called deptno

alter table emp add column deptno integer;

b. Set the value of deptno in the following order

deptno = 20 where emp\_id is divisible by 2

deptno = 30 where emp\_id is divisible by 3

deptno = 40 where emp\_id is divisible by 4

deptno = 50 where emp\_id is divisible by 5

deptno = 10 for the remaining records.

Alter table emp modify column emp\_id integer primary key;

Alter table emp add column deptno integer ;

Update emp Set deptno = 20 Where mod(emp\_id,2)=0;

Update emp Set deptno = 30 Where mod(emp\_id,3)=0;

Update emp Set deptno = 40 Where mod(emp\_id,4)=0;

Update emp Set deptno = 50 Where mod(emp\_id,5)=0;

Update emp Set deptno = 10 Where deptno is null;

9. Create a unique index on the emp\_id column.

create unique index id on employee(empid);

10. Create a view called ***emp\_sal*** on the **emp** table by selecting the following fields in the order of highest salary to the lowest salary.

emp\_no, first\_name, last\_name, salary

create view emp\_sal as select emp\_no, first\_name, last\_name, salary from emp;