SET 1

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

Ans: create database Assignment;

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

Ans: create table movies (id integer, title varchar(50), category varchar(25));

insert into movies values(1, ‘ASSASSIN'S CREED: EMBERS’, 'Animations'),

(2, 'Real Steel', 'Animations'),

(3, 'Alvin and the Chipmunks', 'Animations'),

(4, 'The Adventures of Tin Tin', 'Animations'),

(5, 'Safe', 'Action'),

(6, 'Safe House', 'Action'),

(7, 'GIA', '18+'),

(8, 'Deadline 2009', '18+'),

(9, 'The Dirty Picture', '18+'),

(10, 'Marley and me', 'Romance');

Select \* from movies

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

***name, population, capital***

- 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

b) Add a couple of countries of your choice

c) Change ‘Delhi' to ‘New Delhi'

Ans : (a) create table countries(name varchar(30), population integer,capital varchar(30));

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');

(b) INSERT INTO countries(name) VALUES('UK'),

('UAE'),

('canada');

select \* from countries;

(c) UPDATE countries

Set capital = 'New Delhi'

Where capital='Delhi';

1. Rename the table countries to big\_countries .

Update countries

Ans : ALTER TABLE countries

RENAME 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

ANS : product\_id int primary key AUTO\_INCREMENT,

b. Suppliers

supplier\_id - primary key

supplier\_name

location

ANS: supplier\_id int primary key AUTO\_INCREMENT,

c. Stock

id - primary key

product\_id - foreign key of product table

balance\_stock

ANS : id int primary key AUTO\_INCREMENT,

6. Enter some records into the three tables.

ANS : (1) Create table Product (product\_id int primary key AUTO\_INCREMENT,

product\_name varchar(20) not null unique ,

supplier\_id int,

foreign key(supplier\_id ) refrences supplier(supplier\_id));

insert into Product(‘a’ , 1);

(2) Create table Suppliers (supplier\_id int primary key AUTO\_INCREMENT,

supplier\_name varchar(20),

location varchar(40));

insert into Product(‘b , ‘mumbai’);

(3) Create table Stock (id int primary key AUTO\_INCREMENT,

product\_id int,

balance\_stock int,

foreign key (product\_id) refrences Stock(product\_id)

);

insert into Product(1,2, 100000);

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

ANS : ALTER table Supplier

MODIFY supplier\_name varchar(20) not null unique,

8. Modify the emp table as follows

1. Add a column called deptno

ANS : Alter table emp

Add deptno int ;

1. Set the value of deptno in the following order

ANS :

Update Alka

Set id = 20

where dpid%2=0;

Update Alka

Set id = 30

where dpid%3=0;

Update Alka

Set id = 40

where dpid%4=0;

select \* from Alka;

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

ANS: CREATE UNIQUE INDEX uidx\_pid

ON emp (emp\_id);

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.

ANS :

CREATE VIEW [***emp\_sal***] AS  
SELECT emp\_no, first\_name, last\_name, MAX(salary ) AS maxSal

From emp

Group By emp\_no

ORDER BY maxSal DESC;