SET 1

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

Create database assignment1;

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

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

->

CREATE TABLE countries (

name VARCHAR(250),

population INT,

capital VARCHAR(250)

);

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

c) Change ‘Delhi' to ‘New Delhi'

Insert INTO countries VALUES ('Austria', 13, 'Vienna'),

('Serbia', 32, 'Belgrade'),

('Albania', 24, 'Tirana'),

('Montenegro', 26, 'Podgorica');

UPDATE countries

SET capital = 'New Delhi'

WHERE capital = 'Delhi';

4. Rename the table countries to big\_countries.

-- Q4

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

b. Suppliers

supplier\_id - primary key

supplier\_name

location

c. Stock

id - primary key

product\_id - foreign key of product table

balance\_stock

-- Q5.

CREATE TABLE Suppliers(

supplier\_id INT NOT NULL AUTO\_INCREMENT,

supplier\_name VARCHAR(250),

location VARCHAR(250),

PRIMARY KEY (supplier\_id));

CREATE TABLE Product(

product\_id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

product\_name VARCHAR(250) NOT NULL UNIQUE,

description\_ VARCHAR(250),

supplier\_id INT,

FOREIGN KEY (supplier\_id) REFERENCES Suppliers(supplier\_id)

);

CREATE TABLE Stock (

id INT PRIMARY KEY AUTO\_INCREMENT,

product\_id INT,

balance\_stock INT,

FOREIGN KEY (product\_id)

REFERENCES Product (product\_id)

);

6. Enter some records into the three tables.

-- Q6

INSERT INTO Suppliers(supplier\_name, location) VALUES ('TATA', 'PUNE'),

('MAHINDRA', 'NASHIK'),

('MARUTI', 'GUDGAON');

INSERT INTO Product( Product\_name, description\_, Supplier\_id)VALUES('TIAGO', 'HATCHBACK', 1),

('HARRIER', 'SUV', 1),

('HEXA', 'MVP', 1),

('XUV300', 'HATCHBACK', 2),

('XUV700', 'SUV', 2),

('MARAZZO', 'MVP', 2),

('BALENO', 'HATCHBACK', 3),

('GYPSY', 'SUV', 3),

('ERTIGA', 'MVP',3);

INSERT INTO Stock (product\_id, balance\_stock) VALUES (1,5),

(2, 7),

(6, 8),

(8, 23),

(3, 5),

(4, 54),

(7, 4),

(8, 2),

(5, 7);

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

-- Q7.

ALTER TABLE suppliers

MODIFY COLUMN supplier\_name VARCHAR(250) UNIQUE NOT NULL;

8. Modify the emp table as follows

1. Add a column called deptno

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.

-- Q8.

CREATE TABLE emp (

emp\_no int(11) NOT NULL,

birth\_date date NOT NULL,

first\_name varchar(14) NOT NULL,

last\_name varchar(16) NOT NULL,

gender enum('M','F') NOT NULL,

hire\_date date NOT NULL,

salary float(8,2) DEFAULT 7850.00

) ;

INSERT INTO emp VALUES (10001,'1953-09-02','Georgi','Facello','M','2020-02-23',7850.00),(10002,'1964-06-02','Bezalel','Simmel','F','2020-02-23',1756.50),(10003,'1959-12-03','Parto','Bamford','M','2020-02-23',7850.00),(10004,'1954-05-01','Chirstian','Koblick','M','2020-04-15',3475.00),(10005,'1955-01-21','Kyoichi','Maliniak','M','2019-12-27',1756.50),(10006,'1953-04-20','Anneke','Preusig','F','2020-02-23',7850.00),(10007,'1957-05-23','Tzvetan','Zielinski','F','2020-02-23',7850.00),(10008,'1958-02-19','Saniya','Kalloufi','M','1994-09-15',6759.00),(10009,'1952-04-19','Sumant','Peac','F','2020-02-23',7850.00),(10010,'1963-06-01','Duangkaew','Piveteau','F','2019-12-27',1375.00),(10011,'1953-11-07','Mary','Sluis','F','1990-01-22',6759.00),(10012,'1960-10-04','Patricio','Bridgland','M','1992-12-18',3475.00),(10013,'1963-06-07','Eberhardt','Terkki','M','2020-02-23',7850.00),(10014,'1956-02-12','Berni','Genin','M','2020-02-23',1756.50),(10015,'1959-08-19','Guoxiang','Nooteboom','M','2019-12-27',1375.00),(10016,'1961-05-02','Kazuhito','Cappelletti','M','1995-01-27',3475.00),(10017,'1958-07-06','Cristinel','Bouloucos','F','1993-08-03',6759.00),(10018,'1954-06-19','Kazuhide','Peha','F','2020-02-23',7850.00),(10019,'1953-01-23','Lillian','Haddadi','M','1999-04-30',7850.00),(10020,'1952-12-24','Mayuko','Warwick','M','1991-01-26',4300.00),(10021,'1960-02-20','Ramzi','Erde','M','2020-02-23',7850.00),(10022,'1952-07-08','Shahaf','Famili','M','1995-08-22',7850.00),(10023,'1953-09-29','Bojan','Montemayor','F','2020-02-23',1756.50),(10024,'1958-09-05','Suzette','Pettey','F','1997-05-19',3475.00),(10025,'1958-10-31','Prasadram','Heyers','M','2019-12-27',1375.00),(10026,'1953-04-03','Yongqiao','Berztiss','M','1995-03-20',6759.00),(10027,'1962-07-10','Divier','Reistad','F','2020-02-23',7850.00),(10028,'1963-11-26','Domenick','Tempesti','M','1991-10-22',3475.00),(10029,'1956-12-13','Otmar','Herbst','M','2020-02-23',1756.50),(10030,'1958-07-14','Elvis','Demeyer','M','1994-02-17',4300.00),(10031,'1959-01-27','Karsten','Joslin','M','1991-09-01',7850.00),(10032,'1960-08-09','Jeong','Reistad','F','1990-06-20',6759.00),(10033,'1956-11-14','Arif','Merlo','M','2020-02-23',7850.00),(10034,'1962-12-29','Bader','Swan','M','2020-02-23',7850.00),(10035,'1953-02-08','Alain','Chappelet','M','2019-12-27',1756.50),(10036,'1959-08-10','Adamantios','Portugali','M','1992-01-03',3475.00),(10037,'1963-07-22','Pradeep','Makrucki','M','1990-12-05',7850.00),(10038,'1960-07-20','Huan','Lortz','M','2020-02-23',1756.50),(10039,'1959-10-01','Alejandro','Brender','M','2020-02-23',7850.00),(10040,'1959-09-13','Weiyi','Meriste','F','1993-02-14',4300.00),(10041,'1959-08-27','Uri','Lenart','F','2020-02-23',1756.50),(10042,'1956-02-26','Magy','Stamatiou','F','1993-03-21',7850.00),(10043,'1960-09-19','Yishay','Tzvieli','M','1990-10-20',7850.00),(10044,'1961-09-21','Mingsen','Casley','F','1994-05-21',6759.00),(10045,'1957-08-14','Moss','Shanbhogue','M','2019-12-27',1375.00),(10046,'1960-07-23','Lucien','Rosenbaum','M','1992-06-20',7850.00),(10047,'1952-06-29','Zvonko','Nyanchama','M','2020-02-23',1756.50),(10048,'1963-07-11','Florian','Syrotiuk','M','2020-04-15',3475.00),(10049,'1961-04-24','Basil','Tramer','F','1992-05-04',7850.00),(10050,'1958-05-21','Yinghua','Dredge','M','1990-12-25',4300.00),(10051,'1953-07-28','Hidefumi','Caine','M','1992-10-15',7850.00),(10052,'1961-02-26','Heping','Nitsch','M','2020-04-15',3475.00),(10053,'1954-09-13','Sanjiv','Zschoche','F','2020-02-23',1756.50),(10054,'1957-04-04','Mayumi','Schueller','M','1995-03-13',7850.00),(10055,'1956-06-06','Georgy','Dredge','M','1992-04-27',4300.00),(10056,'1961-09-01','Brendon','Bernini','F','1990-02-01',6759.00),(10057,'1954-05-30','Ebbe','Callaway','F','1992-01-15',7850.00),(10058,'1954-10-01','Berhard','McFarlin','M','2020-02-23',7850.00),(10059,'1953-09-19','Alejandro','McAlpine','F','1991-06-26',6759.00),(10060,'1961-10-15','Breannda','Billingsley','M','2020-04-15',1375.00),(10061,'1962-10-19','Tse','Herber','M','2020-02-23',7850.00),(10062,'1961-11-02','Anoosh','Peyn','M','1991-08-30',6759.00),(10063,'1952-08-06','Gino','Leonhardt','F','2020-02-23',7850.00),(10064,'1959-04-07','Udi','Jansch','M','2020-04-15',3475.00),(10065,'1963-04-14','Satosi','Awdeh','M','2019-12-27',1756.50),(10066,'1952-11-13','Kwee','Schusler','M','2020-02-23',7850.00),(10067,'1953-01-07','Claudi','Stavenow','M','2020-02-23',7850.00),(10068,'1962-11-26','Charlene','Brattka','M','2020-04-15',1756.50),(10069,'1960-09-06','Margareta','Bierman','F','2020-02-23',7850.00),(10070,'1955-08-20','Reuven','Garigliano','M','2019-12-27',1375.00),(10071,'1958-01-21','Hisao','Lipner','M','2020-02-23',1756.50),(10072,'1952-05-15','Hironoby','Sidou','F','2020-04-15',3475.00),(10073,'1954-02-23','Shir','McClurg','M','1991-12-01',7850.00),(10074,'1955-08-28','Mokhtar','Bernatsky','F','1990-08-13',6759.00),(10075,'1960-03-09','Gao','Dolinsky','F','2019-12-27',1375.00),(10076,'1952-06-13','Erez','Ritzmann','F','2020-04-15',3475.00),(10077,'1964-04-18','Mona','Azuma','M','1990-03-02',6759.00),(10078,'1959-12-25','Danel','Mondadori','F','2020-02-23',7850.00),(10079,'1961-10-05','Kshitij','Gils','F','2020-02-23',7850.00),(10080,'1957-12-03','Premal','Baek','M','2020-04-15',1756.50),(10081,'1960-12-17','Zhongwei','Rosen','M','2020-02-23',7850.00),(10082,'1963-09-09','Parviz','Lortz','M','1990-01-03',7850.00),(10083,'1959-07-23','Vishv','Zockler','M','2020-02-23',1756.50),(10084,'1960-05-25','Tuval','Kalloufi','M','1995-12-15',3475.00),(10085,'1962-11-07','Kenroku','Malabarba','M','1994-04-09',4300.00),(10086,'1962-11-19','Somnath','Foote','M','1990-02-16',6759.00),(10087,'1959-07-23','Xinglin','Eugenio','F','2020-02-23',7850.00),(10088,'1954-02-25','Jungsoon','Syrzycki','F','2020-04-15',3475.00),(10089,'1963-03-21','Sudharsan','Flasterstein','F','2020-02-23',1756.50),(10090,'1961-05-30','Kendra','Hofting','M','2019-12-27',1375.00),(10091,'1955-10-04','Amabile','Gomatam','M','1992-11-18',7850.00),(10092,'1964-10-18','Valdiodio','Niizuma','F','2020-04-15',1756.50),(10093,'1964-06-11','Sailaja','Desikan','M','1996-11-05',7850.00),(10094,'1957-05-25','Arumugam','Ossenbruggen','F','2020-02-23',7850.00),(10095,'1965-01-03','Hilari','Morton','M','2019-12-27',1756.50),(10096,'1954-09-16','Jayson','Mandell','M','1990-01-14',3475.00),(10097,'1952-02-27','Remzi','Waschkowski','M','1990-09-15',7850.00),(10098,'1961-09-23','Sreekrishna','Servieres','F','2020-02-23',1756.50),(10099,'1956-05-25','Valter','Sullins','F','2020-02-23',7850.00),(10100,'1953-04-21','Hironobu','Haraldson','F','2020-04-15',1375.00);

ALTER TABLE emp

ADD deptno INT;

UPDATE emp SET deptno = 20 WHERE emp\_no % 2 = 0;

UPDATE emp SET deptno = 30 WHERE emp\_no % 3 = 0;

UPDATE emp SET deptno = 40 WHERE emp\_no % 4 = 0;

UPDATE emp SET deptno = 50 WHERE emp\_no % 5 = 0;

UPDATE emp SET deptno = 10 WHERE emp\_no IS NULL;

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

-- Q9

CREATE UNIQUE INDEX unique\_index ON emp (emp\_no);

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

-- Q10

CREATE VIEW emp\_sal AS

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

FROM emp

ORDER BY salary DESC ;