```
## 1. create a database called 'assignment' (Note please do the
assignment tasks in this database) ?
# Answer : Created.
--- Create DATABASE assignment;
USE ASSIGNMENT;
_____
## 2. Create the tables from ConsolidatedTables.sql and enter the
records as specified in it ?
# Answer: Consolidated tables Imported in the name of '
assignment'
SHOW TABLES;
_____
## 3. Create a table called countries with the following
columns , name, population, capital ?
# Answer:
Create TABLE Countries (
Name varchar (20),
Population INT UNSIGNED,
Capital VARCHAR (20));
## - choose appropriate datatypes for the columns :
## 3. (a) Insert the following data into the table :
SELECT * FROM COUNTRIES;
INSERT INTO COUNTRIES
VALUES ('China', 1382, 'Beijing'),

('India', 1326, 'Delhi'),

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

('Indonesa', 260, 'Jakarta'),

('Brazil', 209, 'Brasilia'),

('Pakistan', 193, 'Islamabad'),

('Nigeria' 187, 'Abuja'),
                     18'
163,
143,
128,
126,
102,
101,
94,
                           187, 'Abuja'),
163, 'Dhaka'),
 ('Nigeria',
('Bangladesh',
                                        'Moscow'),
('Russia',
                                       'Mexico City'),
('Mexico',
                                       'Tokyo'),
'Manila'),
'Addis Ababa'),
'Hanoi'),
'Cairo'),
('Japan',
('Philippines',
('Ethiopia',
('Vietnam',
                          93,
 ('Egypt',
('Egypt', 93, ('Germany', 81, ('Iran', 80, ('Turkey', 79, ('Congo', 79, ('France', 64, ('United Kingdom', 65, ('Italy', 60, ('South Africa', 55,
                                  'Berlin'),
'Tehran'),
'Ankara'),
'Kinshasa'),
'Paris'),
'London'),
'Rome'),
'Pretoria'),
                                        'Berlin'),
```

```
54, 'Naypyidaw');
('Myanmar',
SELECT * FROM COUNTRIES;
_____
_____
## 3.(b) Add a couple of countries of your choice ?
# Answer:
SELECT * FROM COUNTRIES;
INSERT INTO COUNTRIES
VALUES ('Afganisthan', 6758, 'Kabul'),
('Austria', 3452, 'Vienna'),
('Australia', 7654, 'Canberra'),
('Malaysia', 8945, 'Kuala Lumpur'),
('UAE',1236, 'Dubai');
_____
## 3.(c) Change â€~Delhi' to â€~New Delhi'?
# Answer :
UPDATE
        COUNTRIES SET CAPITAL = 'New Delhi' WHERE NAME =
'INDIA';
SET SQL SAFE UPDATES=0;
UPDATE COUNTRIES SET CAPITAL = 'New Delhi' WHERE NAME =
'INDIA';
SELECT * FROM COUNTRIES;
## 4. Rename the table countries to big countries?
# Answer:
ALTER TABLE COUNTRIES RENAME TO BIG COUNTRIES;
SELECT * FROM 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
# Answer (a):
CREATE TABLE PRODUCT (
PRODUCT ID INT UNSIGNED PRIMARY KEY AUTO INCREMENT,
PRODUCT NAME VARCHAR (50) NOT NULL UNIQUE,
DESCRIPTION VARCHAR (50),
SUPPLIER ID INT UNSIGNED);
```

```
DESC PRODUCT;
-- b. Suppliers
-- supplier id - primary key
-- supplier name
-- location
# Answer (b):
CREATE TABLE SUPPLIERS (
SUPPLIER ID INT UNSIGNED PRIMARY KEY AUTO INCREMENT,
SUPPLIER NAME VARCHAR (50),
LOCATION VARCHAR (50));
ALTER TABLE PRODUCT ADD CONSTRAINT FOREIGN KEY (SUPPLIER ID)
REFERENCES SUPPLIERS (SUPPLIER ID);
DESC SUPPLIERS;
-- c. Stock
-- id - primary key
-- product id - foreign key of product table
-- balance stock
\# Answer (\overline{C}):
CREATE TABLE STOCK (
ID INT UNSIGNED PRIMARY KEY AUTO INCREMENT,
PRODUCT ID INT UNSIGNED,
BALANCE STOCK VARCHAR (50),
FOREIGN KEY (PRODUCT ID) REFERENCES PRODUCT (PRODUCT ID));
ALTER TABLE STOCK AUTO INCREMENT =100;
DESC STOCK;
_____
## 6. Enter some records into the three tables?
#ANSWER:
-- FIRST WE NEED TO ENTER THE VALUE IN PARENT TABLE = SUPPLIERS
# SUPPLIERS :
SELECT * FROM SUPPLIERS;
DESC SUPPLIERS;
INSERT INTO SUPPLIERS (SUPPLIER NAME, LOCATION) VALUES
('HYUNDAI MOTORS GROUP', 'SOUTH KOREA');
INSERT INTO SUPPLIERS (SUPPLIER NAME, LOCATION) VALUES
('SAIC MOTOR', 'SHANGHAI'),
('MARUTI UDYOG LIMITED', 'INDIA'),
('MERCEDES BENZ AG', 'GERMANY'),
('BAYERISCHE MOTOREN WERKE AG', 'GERMANY');
SELECT*FROM SUPPLIERS;
-- SECOND WE NEED TO ENTER THE VALUE IN CHILD TABLE = PRODUCT FOR
PARENT TABLE SUPPLIERS
# PRODUCT :
SELECT * FROM PRODUCT;
```

```
DESC PRODUCT;
INSERT INTO product (PRODUCT NAME, DESCRIPTION, SUPPLIER ID)
VALUES (
'CRETA', 'PETROL', 1),
('MG HECTOR', 'DIESEL', 2),
('BREZZA', 'PETROL', 3),
('BENZ C CLASS', 'DIESEL', 4),
('BMW 7 SERIES', 'DIESEL', 5);
-- THIRD WE NEED TO ENTER THE VALUE IN CHILD TABLE = STOCK FOR
PARENT TABLE PRODUCT --
# STOCK :
SELECT * FROM STOCK;
DESC STOCK;
INSERT INTO STOCK (PRODUCT ID, BALANCE STOCK) VALUES (
5,10),
(6,20),
(7,12),
(8,5),
(9,2);
-----
## 7. Modify the supplier table to make supplier name unique and
not null.
# ANSWER:
DESC SUPPLIERS;
ALTER TABLE suppliers MODIFY SUPPLIER NAME VARCHAR (50) UNIQUE NOT
_____
## 8. Modify the emp table as follows
# (A) Add a column called deptno
-- ANSWER:
SELECT * FROM EMP;
ALTER TABLE EMP ADD COLUMN DEPTNO INT UNSIGNED;
#(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.
-- ANSWER:
SELECT * FROM EMP;
--- WE NEED TO CHANGE THE COLUMN NAME FROM EMP NO TO EMP ID
ALTER TABLE EMP RENAME COLUMN EMP NO TO EMP ID;
SELECT * FROM EMP;
--- ONE METHOD
UPDATE EMP SET DEPTNO =
CASE
WHEN EMP ID MOD 2 = 0 THEN 20
WHEN EMP ID MOD 3 = 0 THEN 30
```

```
WHEN EMP ID MOD 4 = 0 THEN 40
WHEN EMPID MOD 5 = 0 THEN 50
ELSE 10
END;
-- SECOND METHOD---
UPDATE EMP SET DEPTNO =
CASE
WHEN EMP ID % 2 = 0 THEN 20
WHEN EMP ID % 3 = 0 THEN 30
WHEN EMP_ID % 4 = 0 THEN 40
WHEN EMP_{ID} % 5 = 0 THEN 50
ELSE 10
END;
 ## 9. Create a unique index on the emp id column.
 # ANSWER:
CREATE UNIQUE INDEX EMP ROLL ID ON emp (EMP ID);
SELECT * FROM EMP;
SHOW INDEXES FROM EMP;
 ______
## 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
# ANSWER:
-- EMP NO IS CHANGED TO EMP ID
CREATE VIEW EMP SAL AS SELECT EMP ID, FIRST NAME, LAST NAME, SALARY
FROM emp
ORDER BY SALARY DESC;
SELECT * FROM EMP SAL;
```