**Assignment-1**

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

**Create database assignment;**

2. Create the tables from assignment\_tables.sql and enter the records as specified in it.

**use assignment;**

**drop table if exists movies;**

**create table movies (id integer, title varchar(50), category varchar(50));**

**drop table if exists customers;**

**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');**

3. Create a table called authors with the following columns

authorid , name

- choose appropriate datatypes for the columns

a) Insert the following data into the table

1, J K Rowling

2, Thomas Hardy

3, Oscar Wilde

4, Sidney Sheldon

5, Alistair Maclean

6, Jane Autsen

**a)USE authors\_sql;**

**CREATE TABLE authors (authorid INT, name VARCHAR (255));**

**SELECT \* FROM authors\_sql.authors;**

**INSERT INTO authors\_sql.authors (authorid, name) VALUES (1, 'JK Rowling'),**

**(2, 'Thomas Hardy'), (3, 'Oscar Wilde'), (4, 'Sidney Sheldon'),**

**(5,'Alistair Maclean'), (6, 'Jane Austen);**

b) Add a couple of authors of your choice

**b)INSERT INTO authors (authorid, name) VALUES (7, 'Stan Lee'), (8, 'David Crane');**

c) Change 'Alistair Maclean' to 'Alastair McNeal'

**c) UPDATE authors SET name= 'Alastair McNeal' WHERE authorid=5;**

4. Create a table called Books with the following columns

bookid, title, authorid

- choose appropriate datatypes for the columns

a) Insert the following records

1,Harry Potter and the Philosopher's Stone,1

2,Harry Potter and the Chamber of Secrets,1

3,Harry Potter and the Half-Blood Prince,1

4,Harry Potter and the Goblet of Fire,1

5,Night Without End,5

6,Fear is the Key,5

7,Where Eagles Dare,5

8,Sense and Sensibility,6

9,Pride and Prejudice,6

10,Emma,6

11,Random Book,22

1. **USE authors\_sql;**

**CREATE TABLE books (bookid INT, title VARCHAR (40), authorid INT);**

**INSERT INTO books (bookid, title, authorid) VALUES (1, "Harry Potter and the Philosopher's Stone", 1), (2, "Harry Potter and the Chamber of Secrets", 1), (3, "Harry Potter and the Half-Blood Prince", 1), (4,"Harry Potter and the Goblet of Fire",1), (5, "Night Without End",5), (6, "Fear is the Key", 5), (7,"Where Eagles Dare",5), (8,"Sense and Sensibility",6), (9,"Pride and Prejudice",6), (10,"Emma",6), (11,"Random Book",22);**

1. Delete 'Random Book' from the table.

**b) DELETE FROM books b WHERE b.title="Random Book";**

5. Rename the table Books to Favbooks and Authors to Favauthors.

**ALTER TABLE books RENAME To Favbooks;**

**ALTER TABLE authors RENAME TO Favauthors;**

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

a. Products

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 products (**

**product\_id INT auto\_increment,**

**product\_name VARCHAR (40) NOT NULL UNIQUE,**

**supplier\_id INT,**

**PRIMARY KEY (product\_id),**

**FOREIGN KEY (supplier\_id) REFERENCES suppliers(supplier\_id));**

b. Suppliers

supplier\_id - primary key

supplier\_name

location

**CREATE TABLE suppliers (**

**supplier\_id INT PRIMARY KEY,**

**supplier\_name VARCHAR (30),**

**location VARCHAR (40));**

c. Stock

id - primary key

product\_id - foreign key of product table

balance\_stock

**CREATE TABLE stock (**

**ID INT auto\_increment,**

**product\_id INT,**

**balance\_stock INT,**

**PRIMARY KEY (ID),**

**FOREIGN KEY (product\_id) REFERENCES products(product\_id));**

7. Enter some records into the three tables.

**insert into products values('P1', 'Namkeen', 'Snacks', 1);**

**insert into products values('P2','Necklace', 'Ornament', 2);**

**insert into products values('P6', 'Sweets', 'Snacks’, 1);**

**insert into stock(product\_id, balance\_stock) values ('P1', 100);**

**insert into stock(product\_id, balance\_stock) values ('P2', 50);**

**insert into stock(product\_id, balance\_stock) values ('P3', 180);**

**insert into Suppliers (supplier\_name, location) values ('Haldirams', 'Hyd'), ('PNG’, 'Banglore'), ( 'Unilever', 'Mumbai');**

8. Modify the supplier table to make supplier name unique and not null. **ALTER TABLE suppliers**

**MODIFY supplier\_name VARCHAR (40) UNIQUE NOT NULL;**

9. Modify the emp table as follows

a. 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.

**a)alter table emp add column depno integer;**

**b)** **update emp set depno=20 where emp\_no%2=0;**

**update emp set depno=30 where emp\_no%3=0;**

**update emp set depno=40 where emp\_no%4=0;**

**update emp set depno=50 where emp\_no%5=0;**

**update emp set depno=10 where depno=null;**

10. Create a unique, hash index on the emp\_id column.

**create index unique using hash on myemp(emp\_id);**