**Design at least 10 sql queries for suitable Book database application using DML statements which includes JOINS, Subqueries, View.**

mysql> use BOOK\_Publication;

Database changed

mysql> create table Book

-> (ISBN int(20),

-> Book\_Title varchar(20),

-> Category varchar(50),

-> Price int(20),

-> Copyright\_date date,

-> year int(200),

-> Page\_count int(30),

-> P\_Id int(20));

Query OK, 0 rows affected, 5 warnings (0.10 sec)

mysql> create table Publisher

-> (P\_Id int(20),

-> P\_Name varchar(40),

-> Address varchar(50),

-> State varchar(30),

-> Phone int(100),

-> E\_Mail varchar(30));

Query OK, 0 rows affected, 2 warnings (0.05 sec)

mysql> create table Author

-> (A\_Id int(20),

-> A\_Name varchar(40),

-> City varchar(20),

-> State varchar(20),

-> Zip\_code int(40),

-> Phone int(50),

-> Url varchar(100));

Query OK, 0 rows affected, 3 warnings (0.05 sec)

mysql> create table Author\_Book

-> (A\_Id int(20),

-> ISBN int(20));

Query OK, 0 rows affected, 2 warnings (0.05 sec)

mysql> create table Review

-> (R\_Id int(20),

-> ISBN int(20),

-> Rating varchar(40));

Query OK, 0 rows affected, 2 warnings (0.05 sec)

mysql> insert into Book

-> values(1, 'Wings of fire', 'Novel' , 400, '2023-04-12', 2023, 500,11);

Query OK, 1 row affected (0.05 sec)

mysql> insert into Book

-> values(2, 'Mrutunjay', 'Novel' , 400, '2023-05-12', 2023, 500,12);

Query OK, 1 row affected (0.04 sec)

mysql> insert into Book values(3, 'Missile Man', 'Biography' , 300, '2023-03-13', 2023,400,22);

Query OK, 1 row affected (0.04 sec)

mysql> insert into Book

-> values(4, 'CPP\_Fundamentals', 'Programming' , 200, '2023-02-13', 2023,400,23);

Query OK, 1 row affected (0.04 sec)

mysql> insert into Book

-> values(5, 'Hamlet', 'Novel' , 500, '2023-05-12', 2023, 550,24);

Query OK, 1 row affected (0.04 sec)

mysql> select \* from Book;

+------+------------------+-------------+-------+----------------+------+------------+------+

| ISBN | Book\_Title | Category | Price | Copyright\_date | year | Page\_count | P\_Id |

+------+------------------+-------------+-------+----------------+------+------------+------+

| 1 | Wings of fire | Novel | 400 | 2023-04-12 | 2023 | 500 | 11 |

| 2 | Mrutunjay | Novel | 400 | 2023-05-12 | 2023 | 500 | 12 |

| 3 | Missile Man | Biography | 300 | 2023-03-13 | 2023 | 400 | 22 |

| 4 | CPP\_Fundamentals | Programming | 200 | 2023-02-13 | 2023 | 400 | 23 |

| 5 | Hamlet | Novel | 500 | 2023-05-12 | 2023 | 550 | 24 |

+------+------------------+-------------+-------+----------------+------+------------+------+

5 rows in set (0.00 sec)

mysql> insert into Publisher

-> values(11, 'Dr.Upadhay', 'Pune', 'Maharashtra', 1234543, "abc@gmail.com");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Publisher

-> values(12, 'Dr.Williams', 'Delhi' , 'Hariyana', 1234543, "pqr@gmail.com");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Publisher

-> values(22, 'Sudarshan', 'Pune' , 'Maharashtra', 123656543, "asd@gmail.com");

Query OK, 1 row affected (0.00 sec)

mysql> insert into Publisher

-> values(23, 'Peerson', 'Pune' , 'Maharashtra', 12346543, "bnm@gmail.com");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Publisher

-> values(24, 'Devdas', 'kolkata' , 'westBangol', 1666543, "qwe@gmail.com");

Query OK, 1 row affected (0.04 sec)

mysql> select \* from Publisher;

+------+-------------+---------+-------------+-----------+---------------+

| P\_Id | P\_Name | Address | State | Phone | E\_Mail |

+------+-------------+---------+-------------+-----------+---------------+

| 11 | Dr.Upadhay | Pune | Maharashtra | 1234543 | abc@gmail.com |

| 12 | Dr.Williams | Delhi | Hariyana | 1234543 | pqr@gmail.com |

| 22 | Sudarshan | Pune | Maharashtra | 123656543 | asd@gmail.com |

| 23 | Peerson | Pune | Maharashtra | 12346543 | bnm@gmail.com |

| 24 | Devdas | kolkata | westBangol | 1666543 | qwe@gmail.com |

+------+-------------+---------+-------------+-----------+---------------+

5 rows in set (0.00 sec)

mysql> insert into Author

-> values(01, "Aditya","Pune", "Maharashtra", 4110982, 122, "www.AdityaPublication.com");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Author

-> values(02, "Peerson","Pune", "Maharashtra", 4110982, 01122, "www.PeersonPublication.com");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Author

-> values(03, "Vikarm Das","Delhi", "Hariyana", 401982, 0412, "www.VikarmDasPublication.com");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Author

-> values(04, "Govinda","Mumbai", "Maharashtra", 41101, 03122, "www.GovindaPublication.com");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Author

-> values(05, "Sudarshan","Banglore", "Karnataka", 45282, 0417, "www.SudarshanPublication.com");

Query OK, 1 row affected (0.04 sec)

mysql> select \* from Author;

+------+------------+----------+-------------+----------+-------+------------------------------+

| A\_Id | A\_Name | City | State | Zip\_code | Phone | Url |

+------+------------+----------+-------------+----------+-------+------------------------------+

| 1 | Aditya | Pune | Maharashtra | 4110982 | 122 | www.AdityaPublication.com |

| 2 | Peerson | Pune | Maharashtra | 4110982 | 1122 | www.PeersonPublication.com |

| 3 | Vikarm Das | Delhi | Hariyana | 401982 | 412 | www.VikarmDasPublication.com |

| 4 | Govinda | Mumbai | Maharashtra | 41101 | 3122 | www.GovindaPublication.com |

| 5 | Sudarshan | Banglore | Karnataka | 45282 | 417 | www.SudarshanPublication.com |

+------+------------+----------+-------------+----------+-------+------------------------------+

5 rows in set (0.00 sec)

mysql> insert into Author\_Book

-> values(01, 1);

Query OK, 1 row affected (0.04 sec)

mysql> insert into Author\_Book

-> values(02, 2);

Query OK, 1 row affected (0.04 sec)

mysql> insert into Author\_Book

-> values(03, 3);

Query OK, 1 row affected (0.04 sec)

mysql> insert into Author\_Book

-> values(04, 4);

Query OK, 1 row affected (0.04 sec)

mysql> insert into Review

-> values(123, 1, "3Star");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Review

-> values(456, 2, "4Star");

Query OK, 1 row affected (0.00 sec)

mysql> insert into Review

-> values(789, 3, "5Star");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Review

-> values(147, 4, "4Star");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Review

-> values(258, 5, "5Star");

Query OK, 1 row affected (0.04 sec)

**1.Implementation Of INNER JOIN:-**

mysql> select Book.P\_Id, Publisher.P\_Name from Book INNER JOIN Publisher on Book.P\_Id=Publisher.P\_Id;

+------+-------------+

| P\_Id | P\_Name |

+------+-------------+

| 11 | Dr.Upadhay |

| 12 | Dr.Williams |

| 22 | Sudarshan |

| 23 | shekhar |

| 24 | Devdas |

+------+-------------+

5 rows in set (0.00 sec)

**2.Implementation of Left-Outer Join.**

mysql> select Book.P\_Id,Publisher.P\_Name from Book LEFT JOIN Publisher on Book.P\_Id=Publisher.P\_Id;

+------+-------------+

| P\_Id | P\_Name |

+------+-------------+

| 11 | Dr.Upadhay |

| 12 | Dr.Williams |

| 22 | Sudarshan |

| 23 | shekhar |

| 24 | Devdas |

+------+-------------+

5 rows in set (0.04 sec)

**3.Implementation of Right-Outer Join.**

mysql> select Book.P\_Id,Publisher.P\_Name from Book Right JOIN Publisher on Book.P\_Id=Publisher.P\_Id;

+------+-------------+

| P\_Id | P\_Name |

+------+-------------+

| 11 | Dr.Upadhay |

| 12 | Dr.Williams |

| 22 | Sudarshan |

| 23 | shekhar |

| 24 | Devdas |

+------+-------------+

5 rows in set (0.00 sec)

**4.Creating view of Publisher table.**

mysql> create view PublisherView AS select P\_Name,Address,Phone from Publisher;

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from PublisherView;

+-------------+---------+-----------+

| P\_Name | Address | Phone |

+-------------+---------+-----------+

| Dr.Upadhay | Pune | 1234543 |

| Dr.Williams | Delhi | 1234543 |

| Sudarshan | Pune | 123656543 |

| shekhar | Pune | 12346543 |

| Devdas | kolkata | 1666543 |

+-------------+---------+-----------+

5 rows in set (0.00 sec)

**5.Retrive name,address,phone of publisher located in Maharashta**

mysql> select P\_Name,Address, Phone From Publisher

-> where state="Maharashtra";

+------------+---------+-----------+

| P\_Name | Address | Phone |

+------------+---------+-----------+

| Dr.Upadhay | Pune | 1234543 |

| Sudarshan | Pune | 123656543 |

| shekhar | Pune | 12346543 |

+------------+---------+-----------+

3 rows in set (0.00 sec)

**6.Find the Book tile and price of book whose page count>500.**

mysql> select Book\_Title, Price From Book

-> where Page\_Count>500;

+------------+-------+

| Book\_Title | Price |

+------------+-------+

| Hamlet | 500 |

+------------+-------+

1. row in set (0.04 sec)

**7.Retrive city,phone,url of author whose name is Sudarshan.**

mysql> select City, Phone, Url From Author

-> Where A\_Name="Sudarshan";

+----------+-------+------------------------------+

| City | Phone | Url |

+----------+-------+------------------------------+

| Banglore | 417 | www.SudarshanPublication.com |

+----------+-------+------------------------------+

1. row in set (0.00 sec)

**8.Find the ISBN,tile and price of book belonging to novel or language category.**

mysql> select ISBN, Book\_Title, Price From Book

-> where Category="Novel" OR Category="Language";

+------+---------------+-------+

| ISBN | Book\_Title | Price |

+------+---------------+-------+

| 1 | Wings of fire | 400 |

| 2 | Mrutunjay | 400 |

| 5 | Hamlet | 500 |

+------+---------------+-------+

3 rows in set (0.00 sec)

**9.Increase price of all books belonging to novel category by10%.**

mysql> Update Book

-> SET Price=Price\*1.1

-> Where Category="Novel";

Query OK, 3 rows affected (0.04 sec)

Rows matched: 3 Changed: 3 Warnings: 0

mysql> select Book\_Title, Category , Price From Book;

+------------------+-------------+-------+

| Book\_Title | Category | Price |

+------------------+-------------+-------+

| Wings of fire | Novel | 440 |

| Mrutunjay | Novel | 440 |

| Missile Man | Biography | 300 |

| CPP\_Fundamentals | Programming | 200 |

| Hamlet | Novel | 550 |

+------------------+-------------+-------+

5 rows in set (0.00 sec)

**10.Find details of authors residing in same as Aditya name of author.**

mysql> Select \* From Author

-> Where City=(

-> select City From Author

-> Where A\_Name="Aditya");

+------+---------+------+-------------+----------+-------+----------------------------+

| A\_Id|A\_Name|City |State | Zip\_code | Phone | Url

|

+------+---------+------+-------------+----------+-------+----------------------------+

| 1 |Aditya |Pune|Maharashtra |4110982 |122 | www.AdityaPublication.com

| 2 |Peerson |Pune|Maharashtra|4110982 |1122 | www.PeersonPublication.com |

+------+---------+------+-------------+----------+-------+----------------------------+

2 rows in set (0.04 sec)