

## **Lab-6**

**Write all create table statements and all insert values statements here.**

```
create table Publisher (  
    PublisherName varchar2(50) NOT NULL,  
    City varchar2(50) NOT NULL,  
    Country varchar2(50) NOT NULL,  
    TelephoneNumber int NOT NULL,  
    YearOfFoundation int NOT NULL,  
    PRIMARY KEY (PublisherName)  
);
```

```
create table Author (  
    AuthorNumber int NOT NULL,  
    AuthorName varchar2(50) NOT NULL,  
    DateOfBirth int NOT NULL,  
    Country varchar2(50) NOT NULL,  
    PRIMARY KEY (AuthorNumber)  
);
```

```
create table Book (  
    BookNumber int NOT NULL,  
    BookName varchar2(50) NOT NULL,  
    PublishedYear int NOT NULL,  
    Page int NOT NULL,  
    Costs int NOT NULL,  
    PublisherName varchar2(50) NOT NULL,  
    PRIMARY KEY (BookNumber)  
);
```

```
create table Customer (  
    CustomerNumber int NOT NULL,  
    CustomerName varchar2(50) NOT NULL,  
    Street varchar2(50) NOT NULL,
```

```

City varchar2(50) NOT NULL,
State varchar2(50) NOT NULL,
Country varchar2(50) NOT NULL,
PRIMARY KEY (CustomerNumber)
);

create table Writing (
BookNumber int NOT NULL,
AuthorNumber int NOT NULL,
PRIMARY KEY (BookNumber,AuthorNumber)
);

create table Sale (
BookNumber int NOT NULL,
CustomerNumber int,
Dates varchar2(50) NOT NULL,
Price int NOT NULL,
Quantity int NOT NULL,
PRIMARY KEY (BookNumber,CustomerNumber)
);

insert into Publisher values ('Sadguru Publishing Ltd','Mumbai','India',1234567890,1962);
insert into Publisher values ('FiveNights Publishing
Ltd','NewYork','USA',0123456789,1964);
insert into Publisher values ('MoonKnight Publishing
Ltd','Hyderabad','India',0987654321,1968);
insert into Publisher values ('HighFive Publishing
Ltd','Vijayawada','India',9876543210,1960);
insert into Author values (781,'Paigan',1964,'India');
insert into Author values (690,'Dutch',1975,'USA');
insert into Author values (882,'Samuel',1916,'India');
insert into Author values (103,'Hruthesh',1965,'India');
insert into Book values (892,'Business ethics',2001,200,300,'Sadguru Publishing Ltd');
insert into Book values (1092,'Body Language',2012,420,450,'FiveNights Publishing Ltd');

```

```
insert into Book values (982,'Social Media',1950,230,400,'MoonKnight Publishing Ltd');
insert into Book values (862,'Money Machine',2001,330,500,'HighFive Publishing Ltd');
insert into Customer values (562,'Arthur','Queens street','London','London','UK');
insert into Customer values (662,'John','Gold street','Armadillo','Mexico','USA');
insert into Customer values (182,'Pearson','Statue street','Rhodes','Helph','Switzerland');
insert into Customer values (342,'Hosea','Gandhi street','Hyderabad','Telangana','India');
insert into Writing values (892,781);
insert into Writing values (1092,690);
insert into Writing values (982,882);
insert into Writing values (862,103);
insert into Sale values (892,562,2020,300,192);
insert into Sale values (1092,662,2020,450,56);
insert into Sale values (982,182,2020,400,10);
insert into Sale values (862,342,2020,500,84);
select * from Publisher;
select * from Author;
select * from Book;
select * from Customer;
select * from Writing;
select * from Sale;
```

### **Output:**

PUBLISHERNAME	CITY	COUNTRY	TELEPHONENUMBER	YEAROFFOUNDATION
Sadguru Publishing Ltd	Mumbai	India	1234567890	1962
FiveNights Publishing Ltd	NewYork	USA	123456789	1964
MoonKnight Publishing Ltd	Hyderabad	India	987654321	1968
HighFive Publishing Ltd	Vijayawada	India	9876543210	1960

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4 rows selected.

AUTHORNUMBER	AUTHORNAME	DATEOFBIRTH	COUNTRY
781	Paigan	1964	India
690	Dutch	1975	USA
882	Samuel	1916	India
103	Hruthesh	1965	India

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4 rows selected.

BOOKNUMBER	BOOKNAME	PUBLISHEDYEAR	PAGE	COSTS	PUBLISHERNAME
892	Business ethics	2001	200	300	Sadguru Publishing Ltd
1092	Body Language	2012	420	450	FiveNights Publishing Ltd
982	Social Media	1950	230	400	MoonKnight Publishing Ltd
862	Money Machine	2001	330	500	HighFive Publishing Ltd

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4 rows selected.

CUSTOMERNUMBER	CUSTOMERNAME	STREET	CITY	STATE	COUNTRY
562	Arthur	Queens street	London	London	UK
662	John	Gold street	Armadillo	Mexico	USA
182	Pearson	Statue street	Rhodes	Helph	Switzerland
342	Hosea	Gandhi street	Hyderabad	Telangana	India

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4 rows selected.

BOOKNUMBER	AUTHORNUMBER
862	103
892	781
982	882
1092	690

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4 rows selected.

BOOKNUMBER	CUSTOMERNUMBER	DATES	PRICE	QUANTITY
892	562	2020	57600	192
1092	662	2020	25200	56
982	182	2020	4000	10
862	342	2020	42000	84

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4 rows selected.

### 1. Make view to store the details of all authors from INDIA.

create view Indian\_Authors as

select \* from Author

where Country='India';

select \* from Indian\_Authors

#### Output:

AUTHORNUMBER	AUTHORNAME	DATEOFBIRTH	COUNTRY
781	Paigan	1964	India
882	Samuel	1916	India
103	Hruthesh	1965	India

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3 rows selected.

### 2. Make a view to have details of all publisher names starting with 'S' or ending with 'S'

create view PublisherNames as

select \* from Publisher

where PublisherName LIKE ('S%') or PublisherName LIKE('%S');

select \* from PublisherNames

#### Output:

PUBLISHERNAME	CITY	COUNTRY	TELEPHONENUMBER	YEAROFFOUNDATION
Sadguru Publishing Ltd	Mumbai	India	1234567890	1962

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### 3. Find the highest priced book names written by an Indian author.

select BookName

from Book,Writing,Author

where Book.BookNumber=Writing.BookNumber and

Author.AuthorNumber=Writing.AuthorNumber and Author.Country='India' and

Costs=(select Max(Costs) from Book);

#### Output:

BOOKNAME
Money Machine
<a href="#">Download CSV</a>

**4. Find the total number of books sold to a customer with same starting character with author.**

```
select Quantity
```

```
from Customer,Writing,Sale,Author
```

```
where Writing.BookNumber=Sale.BookNumber and
```

```
Customer.CustomerNumber=Sale.CustomerNumber and
```

```
Author.AuthorNumber=Writing.AuthorNumber and AuthorName LIKE '[A-Z]%'=
```

```
CustomerName LIKE '[A-Z]%';
```

**Output:**

QUANTITY
84
<a href="#">Download CSV</a>

**5. How many books are sold to customers from more than 3 cities of India?**

```
select sum(Quantity)
```

```
from Customer,Sale
```

```
where Customer.CustomerNumber=Sale.CustomerNumber and Country='India' having
```

```
Count(City)>3;
```

**Output:**

no data found

**6. Find the authors, who are older than publisher.**

```
select AuthorName
from Author,Book,Publisher,Writing
where Book.PublisherName=Publisher.PublisherName and
Book.BookNumber=Writing.BookNumber and
Author.AuthorNumber=Writing.AuthorNumber and DateOfBirth < YearOfFoundation;
```

**Output:**

AUTHORNAME
Samuel

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**7. Find the top 3 customer name, who have purchased highest number of books and top 2 highest amount spend customer to purchase books.**

```
select CustomerName
from Sale,Customer
where Sale.CustomerNumber=Customer.CustomerNumber
Order by Quantity DESC
FETCH FIRST 3 ROWS ONLY;
```

```

select CustomerName
from Sale, Customer
where Sale.CustomerNumber=Customer.CustomerNumber
Order by Price DESC
FETCH FIRST 2 ROWS ONLY;

```

**Output:**

CUSTOMERNAME
Arthur
Hosea
John

Download CSV  
3 rows selected.

CUSTOMERNAME
Arthur
Hosea

Download CSV  
2 rows selected.

**8. List the authors in descending order on age, who have written more than 5 books.**

```


select AuthorName, DateOfBirth
from Author, Writing, Book
where Author.AuthorNumber=Writing.AuthorNumber and
Book.BookNumber=Writing.BookNumber
Order by DateOfBirth

```



having count(BookName)>5

**Output:**



no data found

**Submitted by:** Gelle Hruthesh Reddy, 20BCB7031