

**Assignment 2:** Design a database schema for a library system, including tables, fields, and constraints like NOT NULL, UNIQUE, and CHECK. Include primary and foreign keys to establish relationships between tables.

### SQL Commands:

```
create table Authors
(
author_id number(10) PRIMARY KEY,
name varchar2(50) NOT NULL
);
```

```
insert into Authors values(3,'Harrley');
```

```
select * from Authors;
```

```
create table Categories
(
category_id number(10) PRIMARY KEY,
category_name varchar2(50) NOT NULL UNIQUE
);
```

```
insert into Categories values(3,'Love Comedy');
```

```
select * from Categories;
```

```
create table Members
(
member_id number(10) PRIMARY KEY,
name varchar2(50) NOT NULL,
email varchar2(100) NOT NULL UNIQUE,
phone varchar2(15) UNIQUE CHECK (phone != '0')
);
```

```
insert into Members values(2,'bb','bb@gmail.com',0987654321);
```

```
select * from Members;
```

Activities Firefox Web Browser May 28 23:59

SQL Commands x RAJS20/practice x (no subject) - rajs7819@ x +

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ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
create table Authors
(
  author_id number(10) PRIMARY KEY,
  name varchar2(50) NOT NULL
);

insert into Authors values(3,'Hazzley');

select * from Authors;

create table Categories
(
  category_id number(10) PRIMARY KEY,
  category_name varchar2(50) NOT NULL UNIQUE
);
```

Results Explain Describe Saved SQL History

AUTHOR_ID	NAME
1	Johnny
2	Bruce
3	Hazzley

3 rows returned in 0.00 seconds CSV Export

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Activities Firefox Web Browser May 29 00:02

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```
create table Categories
(
  category_id number(10) PRIMARY KEY,
  category_name varchar2(50) NOT NULL UNIQUE
);

insert into Categories values(3,'Love Comedy');

select * from Categories;

create table Books
(
  book_id number(10) PRIMARY KEY,
  title varchar2(100) NOT NULL
);
```

Results Explain Describe Saved SQL History

CATEGORY_ID	CATEGORY_NAME
1	Horror
2	Love Drama
3	Love Comedy

3 rows returned in 0.01 seconds CSV Export

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```
insert into Categories values(3,'Love Comedy');

select * from Categories;

create table Members
(
  member_id number(10) PRIMARY KEY,
  name varchar2(50) NOT NULL,
  email varchar2(100) NOT NULL UNIQUE,
  phone varchar2(15) UNIQUE CHECK (phone != '0')
);

insert into Members values(2,'bb','bb@gmail.com',987654321);

select * from Members;
```

Results Explain Describe Saved SQL History

MEMBER_ID	NAME	EMAIL	PHONE
1	aa	aa@gmail.com	1234567890
2	bb	bb@gmail.com	987654321

2 rows returned in 0.01 seconds CSV Export

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