DBMS I AB - 2

```
CREATE TABLE AUTHOR(author_id INT, name VARCHAR(20),city VARCHAR(20),country VARCHAR(20));
CREATE TABLE PUBLISHER(publisher id INT, name VARCHAR(20), city VARCHAR(20), country
VARCHAR(20));
CREATE TABLE CATALOG(book id INT, author id INT, publisher id INT, category id INT, year INT, price
INT);
CREATE TABLE CATEGORY(category_id INT,DESCRIPTION varchar(20));
CREATE TABLE ORDER_DETAILS(order_no INT, book_id INT, quantity INT);
ALTER TABLE PUBLISHER ADD PRIMARY KEY(publisher id);
ALTER TABLE CATALOG ADD PRIMARY KEY(book id, author id, publisher id, category id);
ALTER TABLE CATEGORY ADD PRIMARY KEY(category id);
ALTER TABLE ORDER_DETAILS ADD PRIMARY KEY(order_no,book_id);
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
+----+
+----+
| Field | Type | Null | Key | Default | Extra |
+-----
                 ---+----+
```

DESC CATALOG;

Field	Type	+ Null	+ Key	Default	+ Extra
book_id author_id publisher_id category_id year price	int	NO NO NO NO YES YES	PRI PRI PRI PRI PRI	NULL NULL NULL NULL NULL	

+-----

```
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| quantity | int | YES | NULL |
+----+
INSERT INTO PUBLISHER
VALUES(1, 'Soma', 'Trichy', 'India'),(2, 'Sri', 'Trichy', 'India'),(3, 'Sanjeev', 'Trichy', 'India'),(4
, 'Mano', 'Trichy', 'India'),(5, 'Nitin', 'Trichy', 'India')
INSERT INTO CATALOG VALUES(1,1,1,1,2023,7200,'SQL'),(2,2,2,2,2023,5200,'C++'
'Cotlin');
INSERT INTO CATEGORY VALUES(1,'V Good'),(2,'V Good'),(3,'Exellent'),(4,'Good
INSERT INTO ORDER_DETAILS VALUES(1,1,200),(2,2,230),(3,3,300),(4,4,210),(5,5,100);
SELECT COUNT(author_id) FROM AUTHOR;
| COUNT(author_id) |
+----+
2.
CREATE TABLE Book(Acc_no INT,Yr_pib INT,title VARCHAR(20));
DESC Book;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
```

INSERT INTO Book VALUES(734216,1982,'Algorithm design'),(237235,1995,'Database
systems'),(631523,1992,'Compiler design'),(543211,1991,'programming'),(376112,1992,'Machine
design');

SELECT * FROM Book;

+----+

SELECT title,Acc_no FROM Book;

+	++ Acc_no ++
Database systems Machine design programming Compiler design Algorithm design	237235 376112 543211 631523 734216

SELECT * FROM Book WHERE Yr_pib =1992;

++ Acc_no	Yr_pib	++ title
376112 631523 ++		Machine design Compiler design

SELECT * FROM Book WHERE Acc no>=56782;

+	+	
Acc_no	Yr_pib	title
237235 376112 543211 631523 734216	1995 1992 1991 1992 1982	Database systems Machine design programming Compiler design Algorithm design

SELECT Acc_no AS SERIAL_NO

-> FROM Book;

SELECT Yr_pib AS YEAR FROM Book;

```
YEAR |
+----+
| 1995 |
| 1992 |
| 1991 |
| 1992 |
| 1982 |
```

CREATE TABLE branch(branch_name VARCHAR(20),branch_city VARCHAR(20),assets VARCHAR(20));

CREATE TABLE customer(customer_name VARCHAR(20),customer_city VARCHAR(20),cutomer_street VARCHAR(20));

```
CREATE TABLE account(account number INT, branch name VARCHAR(20), balance INT);
CREATE TABLE loan(loan_number INT, branch_name VARCHAR(20), amount INT);
CREATE TABLE depositor(customer_name VARCHAR(20),account_number INT);
CREATE TABLE borrower(customer name VARCHAR(20), loan number INT);
SELECT title, Acc no FROM Book;
+----+
| title | Acc_no |
+----+
| Database systems | 237235 |
| Machine design | 376112 |
programming 543211
| Compiler design | 631523 |
| Algorithm design | 734216 |
+----+
SELECT * FROM Book WHERE Yr pib =1992;
+----+
| Acc_no | Yr_pib | title |
+-----
| 376112 | 1992 | Machine design |
| 631523 | 1992 | Compiler design |
+----+
SELECT * FROM Book WHERE Acc_no>=56782;
+----+
Acc_no | Yr_pib | title |
+----+
| 237235 | 1995 | Database systems |
| 376112 | 1992 | Machine design
| 543211 | 1991 | programming |
| 631523 | 1992 | Compiler design |
| 734216 | 1982 | Algorithm design |
.
+-----+
SELECT Acc no AS SERIAL NO FROM Book;
+----+
| SERIAL NO |
+----+
   237235
   376112 |
   543211
   631523
  734216
+----+
```

```
SELECT Yr_pib AS YEAR FROM Book;
+----+
| YEAR |
+----+
```

```
Date - 10/08/2023
Time - 2:30 - 5:00pm
```

```
| 1995 |
| 1992 |
| 1991 |
| 1992 |
| 1982 |
```

DESC Book;

+	Туре	Null	Key	Default	Extra
Acc_no		NO NO	PRI PRI	NULL NULL	

:		Null	Key	Default	Extra
branch_name branch_city assets	varchar(20) varchar(20) varchar(20)	YES YES YES	 	NULL NULL NULL	

SELECT COUNT(author_id) FROM AUTHOR;

INSERT INTO branch VALUES('Soma','Trichy','GGGG');

INSERT INTO branch VALUES('San','Trichy','GGG');

INSERT INTO branch VALUES('Nitin', 'Trichy', 'GGGGG');

INSERT INTO branch VALUES('Jam', 'Trichy', 'GGGG');

INSERT INTO branch VALUES('Sri', 'Trichy', 'GGG');

```
INSERT INTO customer VALUES ('Soma','Trichy1','GGGG'), ('San','Trichy2','GGG'),
('Nitin','Trichy1','GGGGG'), ('Sri','Trichy2','GGG'), ('Jam','Trichy1','GGGG');
```

INSERT INTO account VALUES(1, 'Soma', 32000),(2, 'San', 12000),(3, 'Nitin', 23000);

INSERT INTO loan VALUES (1,'Soma',2000), (2,'San',1000), (3,'Nitin',3000), (4,'Sri',50),
(5,'Jam',2500);

INSERT INTO depositor VALUES('Soma',1),('San',2),('Nitin',3),('Sri',4),('Jam',5);

INSERT INTO borrower VALUES('Soma',1),('San',2),('Nitin',3),('Sri',4),('Jam',5);

SELECT amount FROM loan WHERE amount>=12000;
Empty Set

```
Date - 10/08/2023
Time - 2:30 - 5:00pm
```

SELECT branch_name FROM branch WHERE branch_city='Trichy'; | branch_name | +----+ | Soma | | San | San Nitin | Jam Sri SELECT customer_name FROM depositor WHERE account_number=1; | customer_name | Soma SELECT customer_name FROM customer WHERE customer_name LIKE 'S%'; | customer_name | Soma San | Sri Soma San | Sri +----+

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