ASSIGNMENT

DBMS

DONIS ABRAHAM
MCA S2A
Roll NO-35

DBMS LAB

EXPERIMENT 1

```sql
CREATE TABLE BRANCH(BNAME VARCHAR(20) PRIMARY
KEY,CITY VARCHAR(30)
CHECK (CITY IN ('NAGPUR','DELHI','BANGALORE','BOMBAY')) NOT
NULL);
INSERT INTO BRANCH (BNAME,CITY) VALUES ('VRCE','NAGPUR');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('AJNI','NAGPUR');
INSERT INTO BRANCH (BNAME,CITY) VALUES
('KAROLBAGH','DELHI');
INSERT INTO BRANCH (BNAME,CITY) VALUES
('CHANDNI','DELHI');
INSERT INTO BRANCH (BNAME,CITY) VALUES
('DHARAMPETH','NAGPUR');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('MG
ROAD','BANGALORE');
INSERT INTO BRANCH (BNAME,CITY) VALUES
('ANDHERI','BOMBAY');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('NEHRU
PALACE','DELHI');
INSERT INTO BRANCH (BNAME,CITY) VALUES
('POWAI','BOMBAY');


CREATE TABLE CUSTOMER (CNAME VARCHAR(15) PRIMARY
KEY,CITY VARCHAR(20)
NOT NULL);
INSERT INTO CUSTOMER VALUES('ANIL','CALCUTTA');
INSERT INTO CUSTOMER VALUES('SUNIL','DELHI');
INSERT INTO CUSTOMER VALUES('MEHUL','BARODA');
INSERT INTO CUSTOMER VALUES('MANDAR','PATNA');
INSERT INTO CUSTOMER VALUES('MADHURI','NAGPUR');
INSERT INTO CUSTOMER VALUES('PRAMOD', 'NAGPUR');
INSERT INTO CUSTOMER VALUES('SANDIP','SURAT');
INSERT INTO CUSTOMER VALUES('SHIVANI','BOMBAY');
INSERT INTO CUSTOMER VALUES('KRANTI','BOMBAY');
INSERT INTO CUSTOMER VALUES('NAREN','BOMBAY');
```

```sql
CREATE TABLE DEPOSIT (
ACTNO VARCHAR(25) PRIMARY KEY CHECK ( ACTNO LIKE
'a%'),CNAME VARCHAR(15), BNAME VARCHAR(20), FOREIGN
KEY(BNAME) REFERENCES BRANCH(BNAME),FOREIGN KEY
(CNAME) REFERENCES customer(CNAME), AMOUNT NUMERIC(8,2)
NOT NULL CHECK(AMOUNT != 0), ADATE DATE
);

INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D100', 'ANIL', 'VRCE',' 1000.00',' 1995-03-01');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D101','SUNIL','AJNI',' 500.00','1996-01-04');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D102','MEHUL','KAROLBAGH ','3500.00','1995-11-17');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D104','MADHURI', 'CHANDNI', '1200.00', '1995-12-17');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D105', 'PRAMOD', 'MG ROAD', '3000.00', '1996-03-27');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D106','SANDIP','ANDHERI', '2000.00','1996-03-31');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D107','SHIVANI', 'VRCE', '1000.00', '1995-09-05');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D108', 'KRANTI', 'NEHRU PALACE', '5000.00', '1995-07-02');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D109', 'NAREN', 'POWAI', '7000.00', '1995-08-10');


CREATE TABLE BORROW (
LOANNO VARCHAR(8) PRIMARY KEY CHECK ( LOANNOLIKE
'L%'),CNAME VARCHAR(15), BNAME VARCHAR(20), FOREIGN
KEY(BNAME) REFERENCES BRANCH(BNAME),FOREIGN KEY
(CNAME) REFERENCES customer(CNAME), AMOUNT NUMERIC(8,2)
NOT NULL CHECK(AMOUNT != 0)
);

INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L201','ANIL','VRCE','1000.00');
```

INSERTINTOborrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L206','MEHUL','AJNI','5000.00');
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L311','SUNIL','AJNI','3000.00');
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L321','MADHURI','CHANDNI','2000.00');
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L371','PRAMOD','MG ROAD','8000.00');
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L481','KRANTI','NEHRU PALACE','3000.00');

EXPERIMENT NO. 2: SELECTING DATA FROM SINGLE TABLE

1. SELECT * FROM DEPOSIT;

2. SELECT * FROM BORROW;

Server: 127.0.0.1 » Database: dbms s2 » Table: borrow

Browse | **Structure** | **SQL** | **Search** | **Insert** | **Export** | **Import** | **Privileges** | **Operations** | **▼ More**

✔ Showing rows 0 - 5 (6 total, Query took 0.0008 seconds.)

```
SELECT * FROM `borrow`
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ Filter rows: Search this table Sort by key: None ▾

+ Options

←T→		LOANNO	CNAME	BNAME	AMOUNT
☐ 🖉 Edit 📋 Copy 🗑 Delete		L201	ANIL	VRCE	1000.00
☐ 🖉 Edit 📋 Copy 🗑 Delete		L206	MEHUL	AJNI	5000.00
☐ 🖉 Edit 📋 Copy 🗑 Delete		L311	SUNIL	AJNI	3000.00
☐ 🖉 Edit 📋 Copy 🗑 Delete		L321	MADHURI	CHANDNI	2000.00
☐ 🖉 Edit 📋 Copy 🗑 Delete		L371	PRAMOD	MG ROAD	8000.00
☐ 🖉 Edit 📋 Copy 🗑 Delete		L481	KRANTI	NEHRU PALACE	3000.00

⬑ ☐ Check all With selected: 🖉 Edit 📋 Copy 🗑 Delete 📤 Export

☐ Show all | Number of rows: 25 ▾ Filter rows: Search this table Sort by key: None ▾

Query results operations

3. SELECT * FROM CUSTOMER;

Server: 127.0.0.1 » Database: dbms s2 » Table: customer

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges

☐ Profiling [Edit inline] [Edit

☐ Show all | Number of rows: 25 ⌄ | Filter rows: Search this table | Sort by key: None

+ Options

			CNAME	CITY
☐	Edit	Copy	Delete	ANIL	CALCUTTA
☐	Edit	Copy	Delete	KRANTI	BOMBAY
☐	Edit	Copy	Delete	MADHURI	NAGPUR
☐	Edit	Copy	Delete	MANDAR	PATNA
☐	Edit	Copy	Delete	MEHUL	BARODA
☐	Edit	Copy	Delete	NAREN	BOMBAY
☐	Edit	Copy	Delete	PRAMOD	NAGPUR
☐	Edit	Copy	Delete	SANDIP	SURAT
☐	Edit	Copy	Delete	SHIVANI	BOMBAY
☐	Edit	Copy	Delete	SUNIL	DELHI

☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 ⌄ | Filter rows: Search this table | Sort by key: None

Query results operations

4. SELECT * FROM BRANCH;

✔ Showing rows 0 - 8 (9 total, Query took 0.0010 seconds.)

SELECT * FROM `branch`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code]

☐ Show all | Number of rows: 25 ∨ Filter rows: Search this table Sort by key: None ∨

+ Options

	BNAME	CITY
☐ Edit Copy Delete	AJNI	NAGPUR
☐ Edit Copy Delete	ANDHERI	BOMBAY
☐ Edit Copy Delete	CHANDNI	DELHI
☐ Edit Copy Delete	DHARAMPETH	NAGPUR
☐ Edit Copy Delete	KAROLBAGH	DELHI
☐ Edit Copy Delete	MG ROAD	BANGALORE
☐ Edit Copy Delete	NEHRU PALACE	DELHI
☐ Edit Copy Delete	POWAI	BOMBAY
☐ Edit Copy Delete	VRCE	NAGPUR

⬆ ☐ Check all With selected: ✏ Edit Copy Delete Export

☐ Show all | Number of rows: 25 ∨ Filter rows: Search this table Sort by key: None ∨
■ Console

5. SELECT ACTNO,AMOUNT FROM deposit;

Show query box

✔ Showing rows 0 - 8 (9 total, Query took 0.0014 seconds.)

SELECT ACTNO,AMOUNT FROM deposit

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ∨ Filter rows: Search this table Sort by key: None ∨

+ Options

	ACTNO	AMOUNT
☐ Edit Copy Delete	D100	1000.00
☐ Edit Copy Delete	D101	500.00
☐ Edit Copy Delete	D102	3500.00
☐ Edit Copy Delete	D104	1200.00
☐ Edit Copy Delete	D105	3000.00
☐ Edit Copy Delete	D106	2000.00
☐ Edit Copy Delete	D107	1000.00
☐ Edit Copy Delete	D108	5000.00
☐ Edit Copy Delete	D109	7000.00

⬆ ☐ Check all With selected: ✏ Edit Copy Delete Export
■ Console

6. SELECT CNAME,ACTNO FROM deposit;

Show query box

✔ Showing rows 0 - 8 (9 total, Query took 0.0023 seconds.)

SELECT CNAME,ACTNO FROM deposit

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refres

☐ Show all | Number of rows: 25 ▼   Filter rows: Search this table   Sort by key: None ▼

+ Options

		CNAME	ACTNO
☐	🖉 Edit ⬚ Copy ⊖ Delete	ANIL	D100
☐	🖉 Edit ⬚ Copy ⊖ Delete	KRANTI	D108
☐	🖉 Edit ⬚ Copy ⊖ Delete	MADHURI	D104
☐	🖉 Edit ⬚ Copy ⊖ Delete	MEHUL	D102
☐	🖉 Edit ⬚ Copy ⊖ Delete	NAREN	D109
☐	🖉 Edit ⬚ Copy ⊖ Delete	PRAMOD	D105
☐	🖉 Edit ⬚ Copy ⊖ Delete	SANDIP	D106
☐	🖉 Edit ⬚ Copy ⊖ Delete	SHIVANI	D107
☐	🖉 Edit ⬚ Copy ⊖ Delete	SUNIL	D101

7. SELECT CNAME FROM customer;

Show query box

✔ Showing rows 0 - 9 (10 total, Query took 0.0015 seconds.)

SELECT CNAME FROM customer

☐ Profiling [Edit inline] [Edit]

☐ Show all | Number of rows: 25 ▼   Filter rows: Search this table   Sort by key: None

+ Options

		CNAME
☐	🖉 Edit ⬚ Copy ⊖ Delete	ANIL
☐	🖉 Edit ⬚ Copy ⊖ Delete	KRANTI
☐	🖉 Edit ⬚ Copy ⊖ Delete	MADHURI
☐	🖉 Edit ⬚ Copy ⊖ Delete	MANDAR
☐	🖉 Edit ⬚ Copy ⊖ Delete	MEHUL
☐	🖉 Edit ⬚ Copy ⊖ Delete	NAREN
☐	🖉 Edit ⬚ Copy ⊖ Delete	PRAMOD
☐	🖉 Edit ⬚ Copy ⊖ Delete	SANDIP
☐	🖉 Edit ⬚ Copy ⊖ Delete	SHIVANI
☐	🖉 Edit ⬚ Copy ⊖ Delete	SUNIL

8. SELECT bname FROM branch;

Show query box

✔ Showing rows 0 - 8 (9 total, Query took 0.0031 seconds.)

SELECT bname FROM branch

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [R

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table   Sort by key: None ▾

+ Options

←T→		bname
☐	🖉 Edit ⅜ Copy ⊜ Delete	AJNI
☐	🖉 Edit ⅜ Copy ⊜ Delete	ANDHERI
☐	🖉 Edit ⅜ Copy ⊜ Delete	CHANDNI
☐	🖉 Edit ⅜ Copy ⊜ Delete	DHARAMPETH
☐	🖉 Edit ⅜ Copy ⊜ Delete	KAROLBAGH
☐	🖉 Edit ⅜ Copy ⊜ Delete	MG ROAD
☐	🖉 Edit ⅜ Copy ⊜ Delete	NEHRU PALACE
☐	🖉 Edit ⅜ Copy ⊜ Delete	POWAI
☐	🖉 Edit ⅜ Copy ⊜ Delete	VRCE

9. SELECT cname FROM borrow;

Show query box

✔ Showing rows 0 - 5 (6 total, Query took 0.0092 seconds.)

SELECT cname FROM borrow

☐ Profiling [Edit inline] [Edit] [Explain S

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table   Sort by key: None ▾

▸ Options

←T→		cname
☐	🖉 Edit ⅜ Copy ⊜ Delete	ANIL
☐	🖉 Edit ⅜ Copy ⊜ Delete	KRANTI
☐	🖉 Edit ⅜ Copy ⊜ Delete	MADHURI
☐	🖉 Edit ⅜ Copy ⊜ Delete	MEHUL
☐	🖉 Edit ⅜ Copy ⊜ Delete	PRAMOD
☐	🖉 Edit ⅜ Copy ⊜ Delete	SUNIL

↑ ☐ Check all   With selected: 🖉 Edit ⅜ Copy ⊜ Delete 🖼 Export

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table   Sort by key: None ▾

10. SELECT CNAME FROM customer WHERE city = 'nagpur';

| Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | ▼ More |

Show query box

Showing rows 0 - 1 (2 total, Query took 0.0027 seconds.)

SELECT CNAME FROM customer WHERE city = 'nagpur'

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh

☐ Show all | Number of rows: 25 ∨ Filter rows: Search this table Sort by key: None ∨

+ Options

←T→ **CNAME**

☐ Edit Copy Delete MADHURI

☐ Edit Copy Delete PRAMOD

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 ∨ Filter rows: Search this table Sort by key: None ∨

Query results operations

Print Copy to clipboard Export Display chart Create view

11. SELECT CNAME FROM deposit WHERE AMOUNT>4000;

Show query box

Showing rows 0 - 1 (2 total, Query took 0.0096 seconds.)

SELECT CNAME FROM deposit WHERE AMOUNT>4000

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [R

☐ Show all | Number of rows: 25 ∨ Filter rows: Search this table Sort by key: None ∨

Options

←T→ **CNAME**

☐ Edit Copy Delete KRANTI

☐ Edit Copy Delete NAREN

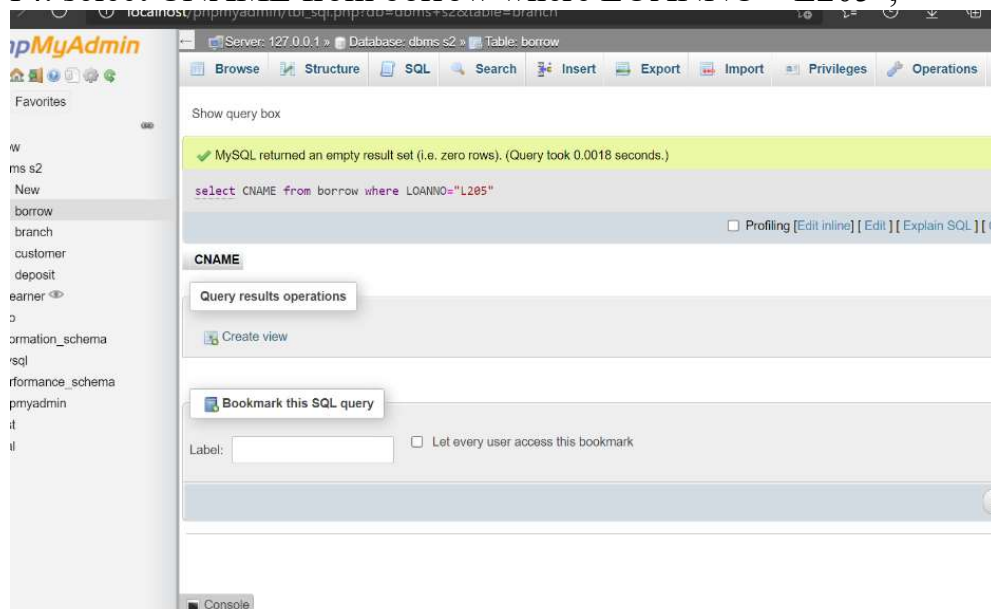↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 ∨ Filter rows: Search this table Sort by key: None ∨
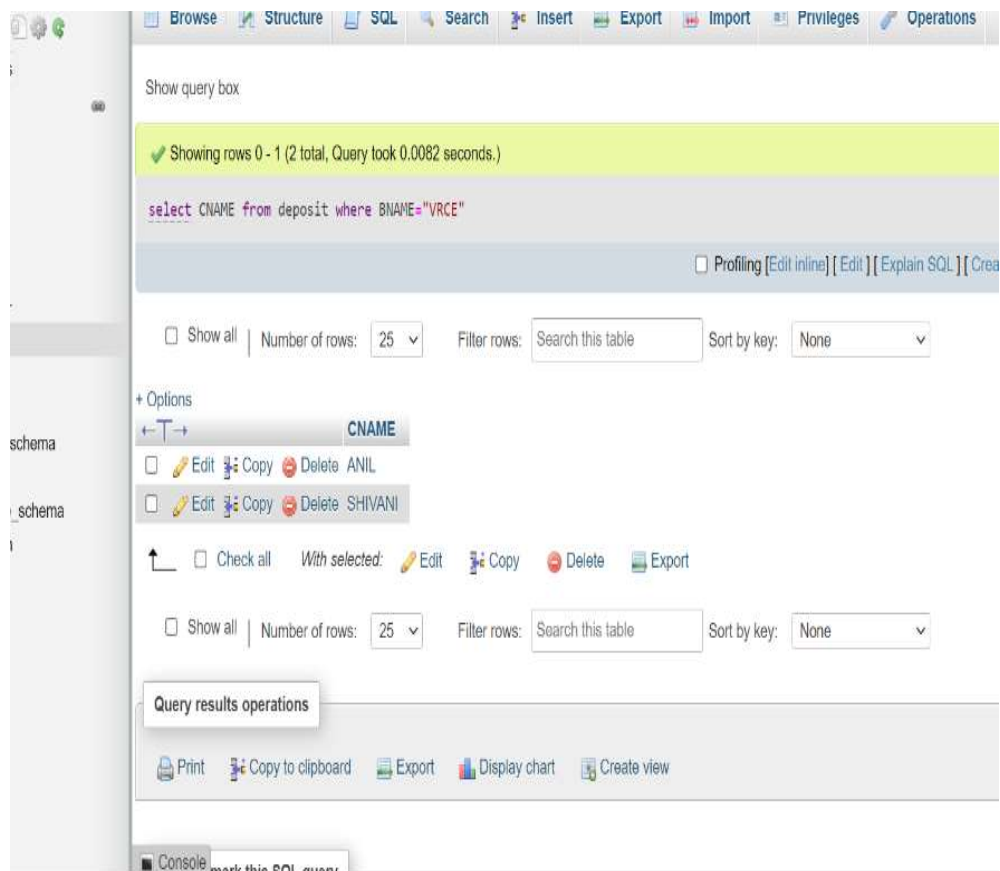
Query results operations

Print Copy to clipboard Export Display chart Create view

Console

12. select ADATE from deposit where CNAME="ANIL";

Showing rows 0 - 0 (1 total, Query took 0.0016 seconds.)

select ADATE from deposit where CNAME="ANIL"

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table

+ Options

←T→   **ADATE**
☐   ✏ Edit ┋ Copy ⊖ Delete   1995-03-01

↑   ☐ Check all   With selected: ✏ Edit   ┋ Copy   ⊖ Delete   ⬛ Export

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table

Query results operations

🖨 Print   ┋ Copy to clipboard   ⬛ Export   📊 Display chart   📇 Create view

📑 Bookmark this SQL query
■ Console

13. select BNAME from branch where CITY="BOMBAY";

how query box

✔ Showing rows 0 - 1 (2 total, Query took 0.0022 seconds.)

elect BNAME from branch where CITY="BOMBAY"

☐ Profiling [Edit inline] [Edit] [Explain SQL] [C

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table   Sort by key: None ⌄

ptions

T→   **BNAME**
]   ✏ Edit ┋ Copy ⊖ Delete   ANDHERI
]   ✏ Edit ┋ Copy ⊖ Delete   POWAI

▬   ☐ Check all   With selected: ✏ Edit   ┋ Copy   ⊖ Delete   ⬛ Export

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table   Sort by key: None ⌄

Query results operations

🖨 Print   ┋ Copy to clipboard   ⬛ Export   📊 Display chart   📇 Create view
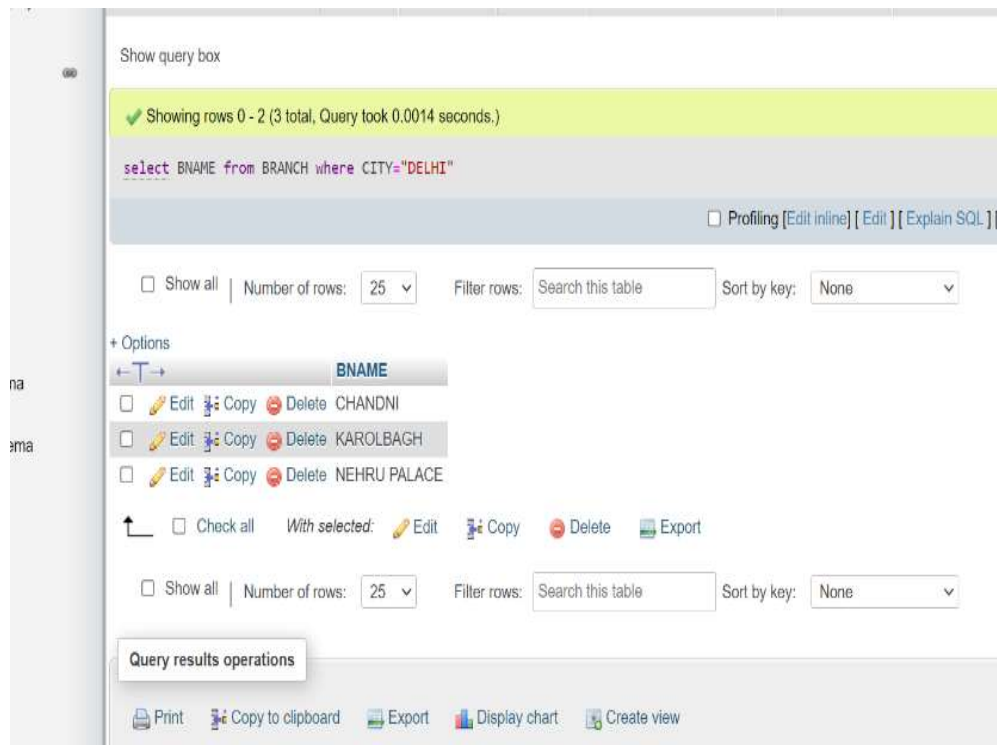
Console mark this SQL query

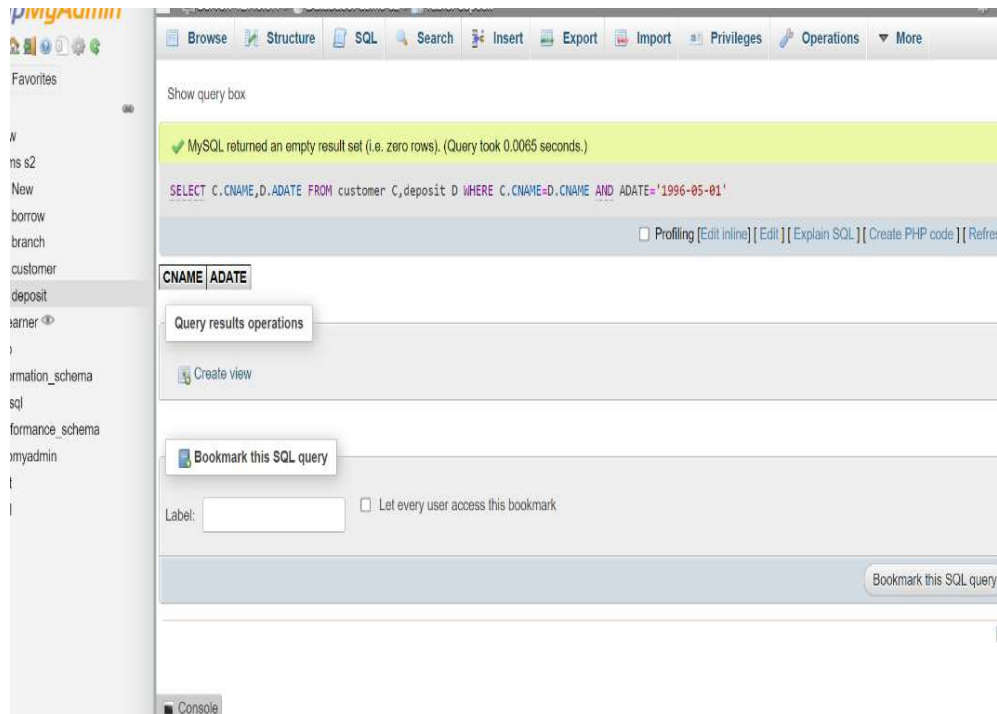14. select CNAME from borrow where LOANNO="L205";

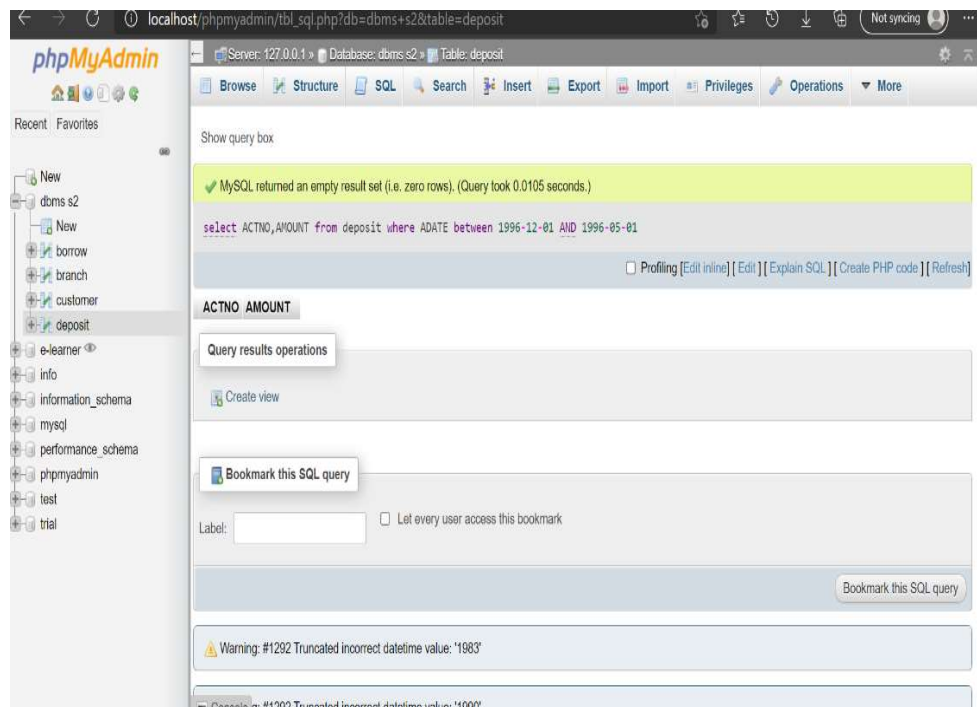15. select CNAME from deposit where BNAME="VRCE";

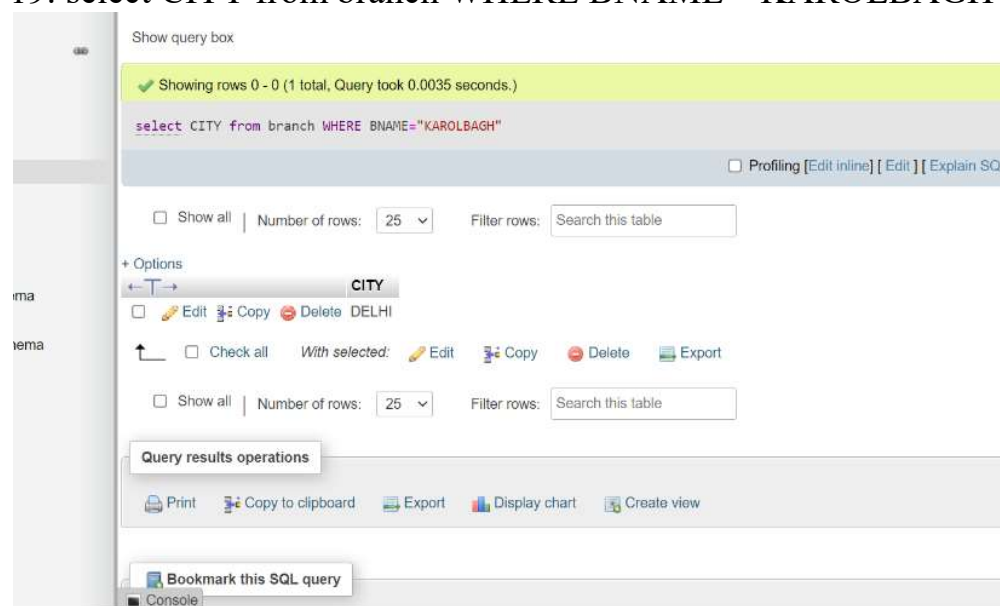16. select BNAME from BRANCH where CITY="DELHI";

17. select CNAME from CUSTOMER where ADATE=1996-12-01;

18. select ACTNO,AMOUNT from deposit where ADATE between 1996-12-01 AND 1996-05-01;

19. select CITY from branch WHERE BNAME="KAROLBAGH";

20. SELECT * FROM CUSTOMER JOIN BORROW ON CUSTOMER.CNAME=BORROW.CNAME JOIN DEPOSIT ON DEPOSIT.CNAME=BORROW.CNAME WHERE CUSTOMER.CNAME='ANIL'

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Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ❔

✔ Showing rows 0 - 0 (1 total, Query took 0.0224 seconds.)

SELECT * FROM CUSTOMER JOIN BORROW ON CUSTOMER.CNAME=BORROW.CNAME JOIN DEPOSIT ON DEPOSIT.CNAME=BORROW.CNAME WHERE CUSTOMER.CNAME='ANIL'

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▼   Filter rows: Search this table

+ Options

CNAME	CITY	LOANNO	CNAME	BNAME	AMOUNT	ACTNO	CNAME	BNAME	AMOUNT	ADATE
ANIL	CALCUTTA	L201	ANIL	VRCE	1000.00	D100	ANIL	VRCE	1000.00	1995-03-01

☐ Show all | Number of rows: 25 ▼   Filter rows: Search this table

Query results operations

🖨 Print   📋 Copy to clipboard   📤 Export   📊 Display chart   📰 Create view

☐ Bookmark this SQL query

🔲 Console