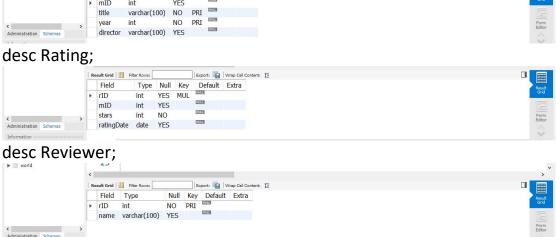
## **Dbms LAB6 CMDS**

## -V Venkataraman 106118106 Q1

USE MYSAMPLDB;

```
-- 1
 create table Movie(mID int, title varchar(100), year int, director varchar(100));
create table Reviewer(rID int, name varchar(100));
create table Rating(rID int, mID int, stars int, ratingDate date);
alter table Movie add primary key (mID);
-- alter table Movie drop primary key;
alter table Movie add primary key (title, year);
alter table Reviewer add primary key (rID);
alter table Rating change stars stars int NOT NULL;
alter table Rating change stars stars int NOT NULL check(stars in (1, 2, 3, 4, 5));
alter table Rating change ratingDate ratingDate date check(ratingData >=
"00-00-2000");
alter table Movie add constraint CHECK(YEAR>1900 AND CASE WHEN
DIRECTOR="STEVEN SPIELBERG" THEN YEAR<1990 WHEN
DIRECTOR="JAMES CAMERON" THEN YEAR>1990 END);
alter table Rating add constraint foreign key(rID) references Reviewer(rID);
alter table Rating add constraint foreign key(mID) references Movie(mID);
desc Movie;
            Field
                       Null Key Default Extra
                Type
             mID
                 int
                       YES
             title varchar(100) NO PRI
            director varchar(100) YES
             Field
```



-- 2

insert into Movie values(101, 'Gone with the Wind', 1939, 'Victor Fleming'); insert into Movie values(102, 'Star Wars', 1977, 'George Lucas'); insert into Movie values(103, 'The Sound of Music', 1965, 'Robert Wise'); insert into Movie values(104, 'E.T.', 1982, 'Steven Spielberg'); insert into Movie values(105, 'Titanic', 1997, 'James Cameron'); insert into Movie values(106, 'Snow White', 1937, null); insert into Movie values(107, 'Avatar', 2009, 'James Cameron');

```
insert into Movie values(108, 'Raiders of the Lost Ark', 1981, 'Steven Spielberg');
insert into Reviewer values(201, 'Sarah Martinez');
insert into Reviewer values(202, 'Daniel Lewis');
insert into Reviewer values(203, 'Brittany Harris');
insert into Reviewer values(204, 'Mike Anderson');
insert into Reviewer values(205, 'Chris Jackson');
insert into Reviewer values(206, 'Elizabeth Thomas');
insert into Reviewer values(207, 'James Cameron');
insert into Reviewer values(208, 'Ashley White');
insert into Rating values(201, 101, 2, '2011-01-22');
insert into Rating values(201, 101, 4, '2011-01-27');
insert into Rating values(202, 106, 4, null);
insert into Rating values(203, 103, 2, '2011-01-20');
insert into Rating values(203, 108, 4, '2011-01-12');
insert into Rating values(203, 108, 2, '2011-01-30');
insert into Rating values(204, 101, 3, '2011-01-09');
insert into Rating values(205, 103, 3, '2011-01-27');
insert into Rating values(205, 104, 2, '2011-01-22');
insert into Rating values (205, 108, 4, null);
insert into Rating values(206, 107, 3, '2011-01-15');
insert into Rating values (206, 106, 5, '2011-01-19');
insert into Rating values(207, 107, 5, '2011-01-20');
insert into Rating values(208, 104, 3, '2011-01-02');
select * from Movie;
                                | Edit: 🕍 📸 | Export/Import: 📳 🐻 | Wrap Cell Content: 🏗
                mID title
               107
                   Avatar
                               2009 James Cameron
               104
                               1982 Steven Spielberg
                   E.T.
                   Gone with the Wind
                                  Victor Fleming
               101
                               1939
               108 Raiders of the Lost Ark 1981 Steven Spielberg
               102 Star Wars
                               1977 George Lucas
                  The Sound of Music
               103
                               1965 Robert Wise
              Action Output
                                                   1 row(s) affected
                111 17:14:24 insert into Rating values(208, 104, 3, '2011-01-02')
                                                                                  0.109 sec
   📸 🔚 🜖 刘 🌖 🖎 🖳 🥒
select * from Reviewer;
              57 • | select * trom Rating:
              Edit: 🔏 🐞 💺 Export/Import: 📳 👸 Wrap Cell Content: 🖽
                   name
               201 Sarah Martinez
               202 Daniel Lewis
                  Brittany Harris
               204 Mike Anderson
```

0.000 sec / 0.000 sec

select \* from Rating;

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No object selected

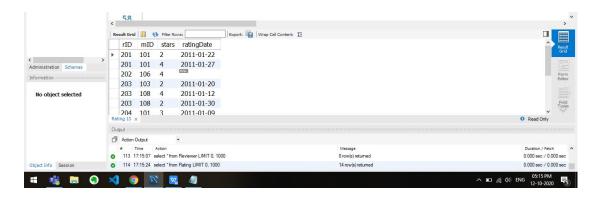
Chris Jackson

112 17:14:29 select \*from Movie LIMIT 0, 1000
 113 17:15:07 select \*from Reviewer LIMIT 0, 1000

206 Elizabeth Thomas 207 James Cameron

205

Action Output



-- 3 insert into Reviewer values(209, null);

-- 4 insert into Rating values(201, 101, null, '2011-01-22');

-- 5 insert into Rating values(201, 101, 7, '2011-01-22');

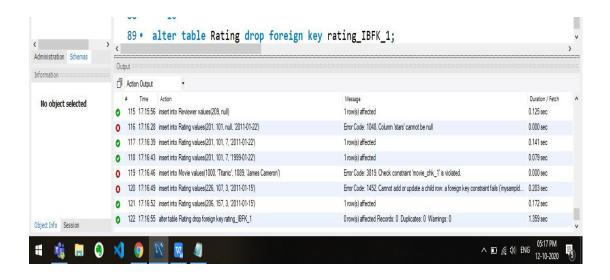
-- 6 insert into Rating values(201, 101, 7, '1999-01-22');

-- 7 insert into Movie values(1000, 'Titanic', 1889, 'James Cameron');

-- 8 insert into Rating values(226, 107, 3, '2011-01-15');

-- 9 insert into Rating values(206, 157, 3, '2011-01-15');

-- 10 alter table Rating drop foreign key rating\_IBFK\_1;



Q2

**USE MYSAMPLDB**;

CREATE TABLE BOOK(BID INT PRIMARY KEY,TITLE VARCHAR(100),PUBLISHER VARCHAR(100));

CREATE TABLE BOOK\_AUTHOR(AID INT PRIMARY KEY, BID INT, AUTHOR\_NAME VARCHAR(100), FOREIGN KEY (BID) REFERENCES BOOK(BID));

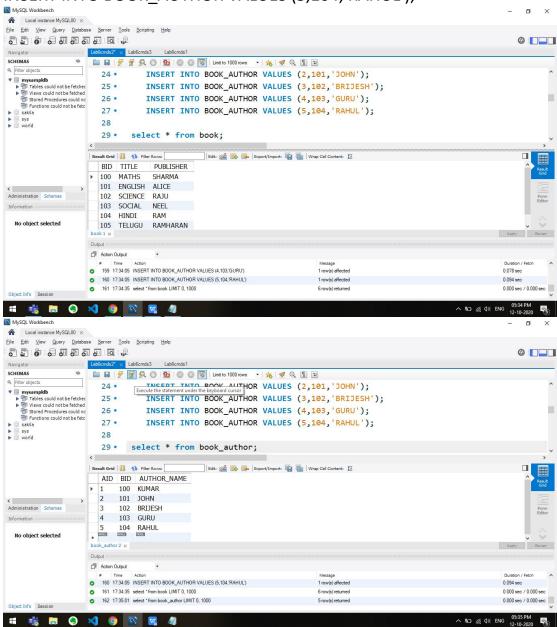
CREATE TABLE BORROWER(CARDNO INT PRIMARY KEY, NAME VARCHAR(100), ADDRESS VARCHAR(100), PHONE INT);

CREATE TABLE BOOK\_LOANS(TRANSID INT PRIMARY KEY,BID INT,CARDNO INT,DATE\_OUT DATE,DUE\_DATE DATE);

INSERT INTO BOOK VALUES (100, 'MATHS', 'SHARMA'); INSERT INTO BOOK VALUES (101, 'ENGLISH', 'ALICE'); INSERT INTO BOOK VALUES (102, 'SCIENCE', 'RAJU'); INSERT INTO BOOK VALUES (103, 'SOCIAL', 'NEEL'); INSERT INTO BOOK VALUES (104, 'HINDI', 'RAM');

## INSERT INTO BOOK VALUES (105, 'TELUGU', 'RAMHARAN');

INSERT INTO BOOK\_AUTHOR VALUES (1,100,'KUMAR'); INSERT INTO BOOK\_AUTHOR VALUES (2,101,'JOHN'); INSERT INTO BOOK\_AUTHOR VALUES (3,102,'BRIJESH'); INSERT INTO BOOK\_AUTHOR VALUES (4,103,'GURU'); INSERT INTO BOOK\_AUTHOR VALUES (5,104,'RAHUL');



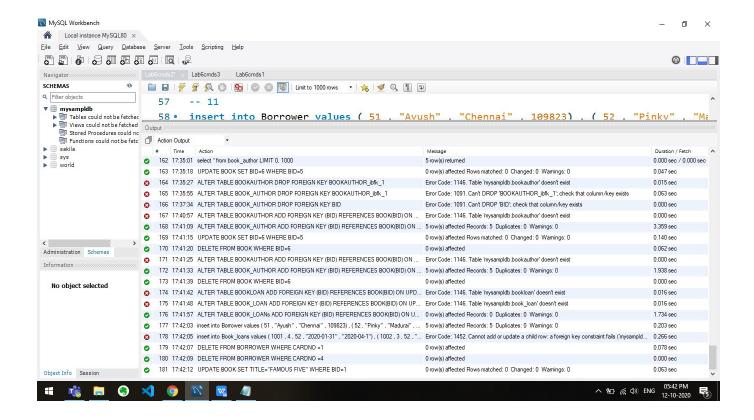
- -- 3
  UPDATE BOOK SET BID=6 WHERE BID=5;
- -- 4
  ALTER TABLE BOOKAUTHOR DROP FOREIGN KEY BOOKAUTHOR ibfk 1;

```
-- 5
ALTER TABLE BOOKAUTHOR ADD FOREIGN KEY (BID) REFERENCES BOOK(BID) ON UPDATE
CASCADE;
-- 6
UPDATE BOOK SET BID=6 WHERE BID=5;
-- 7
DELETE FROM BOOK WHERE BID=6;
-- 8
ALTER TABLE BOOKAUTHOR ADD FOREIGN KEY (BID) REFERENCES BOOK(BID) ON DELETE
CASCADE;
-- 9
DELETE FROM BOOK WHERE BID=6;
-- 10
ALTER TABLE BOOKLOAN ADD FOREIGN KEY (BID) REFERENCES BOOK(BID) ON UPDATE
RESTRICT ON DELETE SET NULL;
-- 11
insert into Borrower values (51, "Ayush", "Chennai", 109823), (52, "Pinky", "Madurai",
903951), (53, "Harshit", "Mumbai", 980980), (54, "Nitin", "Duabii", 12323), (55,
"Priyanka", "Bangalore", 99819);
insert into Book_loans values ( 1001 , 4 , 52 , "2020-01-31" , "2020-04-1") , ( 1002 , 3 , 52 ,
"2020-01-03", "2020-08-01"), (1003,10,53,"2020-09-01", "2020-12-12"), (1004,5,
54, "2020-09-01", "2020-12-12");
-- 12
DELETE FROM BORROWER WHERE CARDNO =1;
```

DELETE FROM BORROWER WHERE CARDNO =4:

UPDATE BOOK SET TITLE="FAMOUS FIVE" WHERE BID=1

-- 13



03

```
USE MYSAMPLDB;
DROP TABLE IF EXISTS OFFSITESECTION;
DROP TABLE IF EXISTS ENROLLEDIN;
DROP TABLE IF EXISTS SECTION;
DROP TABLE IF EXISTS STUDENT;
DROP TABLE IF EXISTS PROFESSOR;
DROP TABLE IF EXISTS COURSE;

CREATE TABLE COURSE
(

COURSENUM INT,

COURSENAME VARCHAR(100),

PRIMARY KEY(COURSENUM)
```

```
);
CREATE TABLE PROFESSOR
   PROFNUM INT,
    PROFNAME VARCHAR(50),
    PRIMARY KEY(PROFNUM)
);
CREATE TABLE STUDENT
   STUDENTNUM INT,
    STUDENTNAME VARCHAR(50),
    GPA INT,
    PRIMARY KEY(STUDENTNUM)
);
CREATE TABLE SECTION
   COURSENUM INT,
    TERM INT,
    SECTIONNUM INT,
    PROFNUM INT,
    PRIMARY KEY(COURSENUM, TERM, SECTIONNUM),
    FOREIGN KEY(COURSENUM) REFERENCES COURSE(COURSENUM),
    FOREIGN KEY(PROFNUM) REFERENCES PROFESSOR(PROFNUM)
);
CREATE TABLE ENROLLEDIN
   COURSENUM INT,
    SECTIONNUM INT,
    STUDENTNUM INT,
    TERM INT,
    PRIMARY KEY(COURSENUM, SECTIONNUM, STUDENTNUM, TERM),
    FOREIGN KEY(COURSENUM) REFERENCES SECTION(COURSENUM),
    MARK INT
);
CREATE TABLE OFFSITESECTION
   COURSENUM INT,
    TERM INT,
    SECTIONNUM INT,
```

## PRIMARY KEY(COURSENUM, TERM, SECTIONNUM), FOREIGN KEY(COURSENUM) REFERENCES SECTION(COURSENUM), LOCATION VARCHAR(100)

);

