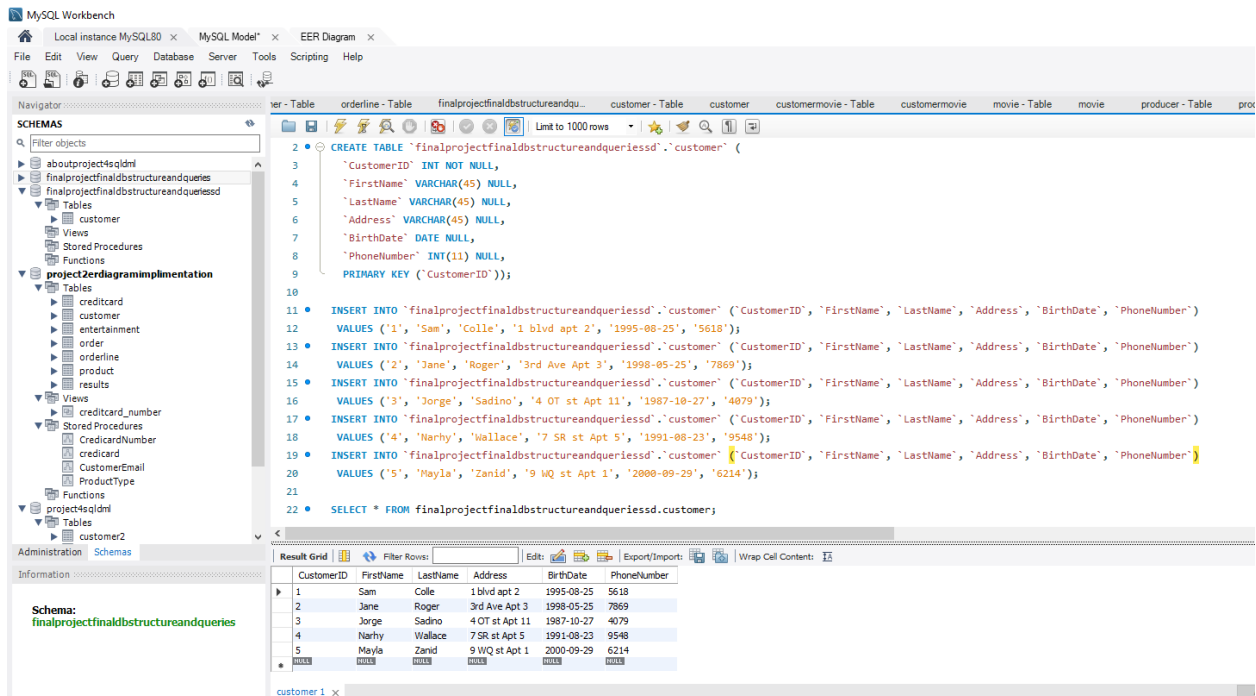


## Final Project: Final DB Structure & Queries

In this Final Project I have created 4 Tables, and my projects was all about a company renting movies. All required Queries was implemented into my database except for the joint because I really can't grasp this concept at all.

### Customer Table

In this query I only included (insert and select)



The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'SCHEMAS' tree with the 'finalprojectfinaldbstructureandqueries' database selected. The main editor window shows a SQL script for creating the 'customer' table and inserting five records. The 'Result Grid' at the bottom shows the data inserted into the table.

```
CREATE TABLE `finalprojectfinaldbstructureandqueries`.`customer` (
  `CustomerID` INT NOT NULL,
  `FirstName` VARCHAR(45) NULL,
  `LastName` VARCHAR(45) NULL,
  `Address` VARCHAR(45) NULL,
  `BirthDate` DATE NULL,
  `PhoneNumber` INT(11) NULL,
  PRIMARY KEY (`CustomerID`));

INSERT INTO `finalprojectfinaldbstructureandqueries`.`customer` (`CustomerID`, `FirstName`, `LastName`, `Address`, `BirthDate`, `PhoneNumber`)
VALUES ('1', 'Sam', 'Colle', '1 blvd apt 2', '1995-08-25', '5618');
INSERT INTO `finalprojectfinaldbstructureandqueries`.`customer` (`CustomerID`, `FirstName`, `LastName`, `Address`, `BirthDate`, `PhoneNumber`)
VALUES ('2', 'Jane', 'Roger', '3rd Ave Apt 3', '1998-05-25', '7869');
INSERT INTO `finalprojectfinaldbstructureandqueries`.`customer` (`CustomerID`, `FirstName`, `LastName`, `Address`, `BirthDate`, `PhoneNumber`)
VALUES ('3', 'Jorge', 'Sadino', '4 OT st Apt 11', '1987-10-27', '4079');
INSERT INTO `finalprojectfinaldbstructureandqueries`.`customer` (`CustomerID`, `FirstName`, `LastName`, `Address`, `BirthDate`, `PhoneNumber`)
VALUES ('4', 'Narhy', 'Wallace', '7 SR st Apt 5', '1991-08-23', '9548');
INSERT INTO `finalprojectfinaldbstructureandqueries`.`customer` (`CustomerID`, `FirstName`, `LastName`, `Address`, `BirthDate`, `PhoneNumber`)
VALUES ('5', 'Mayla', 'Zanid', '9 WQ st Apt 1', '2000-09-29', '6214');

SELECT * FROM finalprojectfinaldbstructureandqueries.customer;
```

CustomerID	FirstName	LastName	Address	BirthDate	PhoneNumber
1	Sam	Colle	1 blvd apt 2	1995-08-25	5618
2	Jane	Roger	3rd Ave Apt 3	1998-05-25	7869
3	Jorge	Sadino	4 OT st Apt 11	1987-10-27	4079
4	Narhy	Wallace	7 SR st Apt 5	1991-08-23	9548
5	Mayla	Zanid	9 WQ st Apt 1	2000-09-29	6214

### Customer Movie Table

In this query I have the insert, the select and the update.

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

aboutproject4sqldml

finalprojectfinaldbstructureandqueries

finalprojectfinaldbstructureandqueries

customer

customermovie

movie

producer

Schema: finalprojectfinaldbstructureandqueries

CREATE TABLE `finalprojectfinaldbstructureandqueries`.`customermovie` (  
 `MovieID` INT NOT NULL,  
 `CustomerID` INT(10) NOT NULL,  
 `DateRented` DATE NULL,  
 `DueDate` DATE NULL,  
 PRIMARY KEY (`MovieID`, `CustomerID`));

INSERT INTO `finalprojectfinaldbstructureandqueries`.`customermovie` (`MovieID`, `CustomerID`, `DateRented`, `DueDate`) VALUES ('1', '1', '2021-02-03', '2021-05-03');  
 INSERT INTO `finalprojectfinaldbstructureandqueries`.`customermovie` (`MovieID`, `CustomerID`, `DateRented`, `DueDate`) VALUES ('2', '2', '2021-03-15', '2021-06-15');  
 INSERT INTO `finalprojectfinaldbstructureandqueries`.`customermovie` (`MovieID`, `CustomerID`, `DateRented`, `DueDate`) VALUES ('3', '3', '2021-04-19', '2021-07-19');  
 INSERT INTO `finalprojectfinaldbstructureandqueries`.`customermovie` (`MovieID`, `CustomerID`, `DateRented`, `DueDate`) VALUES ('4', '4', '2021-04-22', '2021-07-22');  
 INSERT INTO `finalprojectfinaldbstructureandqueries`.`customermovie` (`MovieID`, `CustomerID`, `DateRented`, `DueDate`) VALUES ('5', '5', '2021-03-30', '2021-06-30');

Result Grid

MovieID	CustomerID	DateRented	DueDate
1	1	2021-02-03	2021-05-03
2	2	2021-03-15	2021-07-27
3	3	2021-04-19	2021-11-28
4	4	2021-04-22	2021-07-31
5	5	2021-03-30	2021-08-30

customermovie 2 x

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

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Navigator

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Filter objects

aboutproject4sqldml

finalprojectfinaldbstructureandqueries

finalprojectfinaldbstructureandqueries

customer

customermovie

movie

producer

Schema: finalprojectfinaldbstructureandqueries

UPDATE `finalprojectfinaldbstructureandqueries`.`customermovie` SET `DueDate` = '2021-08-25' WHERE (`MovieID` = '1') and (`CustomerID` = '1');  
 UPDATE `finalprojectfinaldbstructureandqueries`.`customermovie` SET `DueDate` = '2021-07-27' WHERE (`MovieID` = '2') and (`CustomerID` = '2');  
 UPDATE `finalprojectfinaldbstructureandqueries`.`customermovie` SET `DueDate` = '2021-07-31' WHERE (`MovieID` = '4') and (`CustomerID` = '4');

Result Grid

MovieID	CustomerID	DateRented	DueDate
1	1	2021-02-03	2021-08-25
2	2	2021-03-15	2021-07-27
3	3	2021-04-19	2021-11-28
4	4	2021-04-22	2021-07-31
5	5	2021-03-30	2021-08-30

customermovie 3 x

## Movie Table

In this query I have the insert, the select and the update.

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

aboutproject4sqldml  
finalprojectfinaldbstructureandqueries  
finalprojectfinaldbstructureandqueriesd  
Tables  
customer  
Views  
Stored Procedures  
Functions  
project2erDiagramImplementation  
Tables  
creditcard  
customer  
entertainment  
orderline  
product  
results  
Views  
creditcard\_number  
Stored Procedures  
CreditCardNumber  
creditcard  
CustomerEmail  
ProductType  
Functions  
project4sqldml  
Tables  
customer2

Administration Schemas

Information

Schema:  
finalprojectfinaldbstructureandqueries

orderline - Table finalprojectfinaldbstructureandqu... customer - Table customer customermovie - Table customermovie movie - Table movie producer - Table producer SQL File 20

Limit to 1000 rows

```
40 • UPDATE `finalprojectfinaldbstructureandqueries`.`customermovie` SET `DueDate` = '2021-07-31' WHERE (`MovieID` = '4') and (`CustomerID` = '4');
41
42 • CREATE TABLE `finalprojectfinaldbstructureandqueries`.`movie` (
43   `MovieID` INT NOT NULL,
44   `ProducerID` INT(10) NOT NULL,
45   `Title` VARCHAR(255) NULL,
46   `Duration` VARCHAR(20) NULL,
47   `Rating` CHAR(45) NULL,
48   PRIMARY KEY (`MovieID`));
49
50 • INSERT INTO `finalprojectfinaldbstructureandqueries`.`movie` (`MovieID`, `ProducerID`, `Title`, `Duration`, `Rating`)
51   VALUES ('1', '1', 'SpiderMan3', '168m', '3stars');
52 • INSERT INTO `finalprojectfinaldbstructureandqueries`.`movie` (`MovieID`, `ProducerID`, `Title`, `Duration`, `Rating`)
53   VALUES ('2', '2', 'Hulk', '165m', '4stars');
54 • INSERT INTO `finalprojectfinaldbstructureandqueries`.`movie` (`MovieID`, `ProducerID`, `Title`, `Duration`, `Rating`)
55   VALUES ('3', '3', '365days', '122m', '2stars');
56 • INSERT INTO `finalprojectfinaldbstructureandqueries`.`movie` (`MovieID`, `ProducerID`, `Title`, `Duration`, `Rating`)
57   VALUES ('4', '4', 'MortalKombat', '118m', '4stars');
58 • INSERT INTO `finalprojectfinaldbstructureandqueries`.`movie` (`MovieID`, `ProducerID`, `Title`, `Duration`, `Rating`)
59   VALUES ('5', '5', 'BlackPanther', '135m', '5stars');
60
61 • SELECT * FROM finalprojectfinaldbstructureandqueries.movie;
```

Result Grid

	MovieID	ProducerID	Title	Duration	Rating
1	1	1	SpiderMan3	168m	3stars
2	2	2	Avengers	195m	5stars
3	3	3	LoveMe	140m	3stars
4	4	4	MortalKombat	110m	4stars
5	5	5	BlackPanther	135m	5stars
*	NULL	NULL	NULL	NULL	NULL

movie 4 x

Output

Action Output

#	Time	Action	Message
229	01:48:19	UPDATE `finalprojectfinaldbstructureandqueries`.`customermovie` SET `DueDate` = '2021-07-31' WHERE (`MovieID` = '4') and (`CustomerID` = '4');	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0
230	01:48:35	SELECT * FROM finalprojectfinaldbstructureandqueries.customermovie LIMIT 0, 1000	5 row(s) returned
231	01:51:13	CREATE TABLE `finalprojectfinaldbstructureandqueries`.`customermovie` ( `MovieID` INT NOT NULL, `CustomerID` INT(10) NOT NULL, ...	Error Code: 1050. Table 'customermovie' already exists
232	01:52:19	CREATE TABLE `finalprojectfinaldbstructureandqueries`.`movie` ( `MovieID` INT NOT NULL, `ProducerID` INT(10) NOT NULL, `Title` VA...	Error Code: 1050. Table 'movie' already exists
233	01:53:42	INSERT INTO `finalprojectfinaldbstructureandqueries`.`movie` (`MovieID`, `ProducerID`, `Title`, `Duration`, `Rating`) VALUES ('1', '1', 'Spider...	Error Code: 1062. Duplicate entry '1' for key 'movie PRIMARY'

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 x MySQL Model x EER Diagram x

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Navigator

SCHEMAS

Filter objects

aboutproject4sqldml

finalprojectfinaldbstructureandqueries

finalprojectfinaldbstructureandqueriesd

Tables

customer

Views

Stored Procedures

Functions

project2erdiagramimplementation

Tables

creditcard

customer

entertainment

order

ordeline

product

results

Views

creditcard\_number

Stored Procedures

creditcardNumber

creditcard

CustomerEmail

ProductType

Functions

project4sqldml

Tables

customer2

Administration Schemas

Information

Schema:

finalprojectfinaldbstructureandqueries

orderline - Table finalprojectfinaldbstructureandqueries - customer - Table customer customermovie - Table customermovie movie - Table movie producer - Table producer

40 UPDATE finalprojectfinaldbstructureandqueries.customermovie SET DueDate = '2021-07-31' WHERE ('MovieID' = '4') and ('CustomerID' = '4');

41

42 CREATE TABLE finalprojectfinaldbstructureandqueries.movie (

43 MovieID INT NOT NULL,

44 ProducerID INT(10) NOT NULL,

45 Title VARCHAR(255) NULL,

46 Duration VARCHAR(20) NULL,

47 Rating CHAR(45) NULL,

48 PRIMARY KEY (MovieID));

49

50 INSERT INTO finalprojectfinaldbstructureandqueries.movie (MovieID, ProducerID, Title, Duration, Rating)

51 VALUES ('1', '1', 'SpiderMan3', '168m', '3stars');

52 INSERT INTO finalprojectfinaldbstructureandqueries.movie (MovieID, ProducerID, Title, Duration, Rating)

53 VALUES ('2', '2', 'Hulk', '165m', '4stars');

54 INSERT INTO finalprojectfinaldbstructureandqueries.movie (MovieID, ProducerID, Title, Duration, Rating)

55 VALUES ('3', '3', '365days', '122m', '2stars');

56 INSERT INTO finalprojectfinaldbstructureandqueries.movie (MovieID, ProducerID, Title, Duration, Rating)

57 VALUES ('4', '4', 'MortalKombat', '110m', '4stars');

58 INSERT INTO finalprojectfinaldbstructureandqueries.movie (MovieID, ProducerID, Title, Duration, Rating)

59 VALUES ('5', '5', 'BlackPanther', '135m', '5stars');

60

61 SELECT \* FROM finalprojectfinaldbstructureandqueries.movie;

62 UPDATE finalprojectfinaldbstructureandqueries.movie SET Title = 'LoveMe', Duration = '148m', Rating = '3stars' WHERE (MovieID = '3');

63 UPDATE finalprojectfinaldbstructureandqueries.movie SET Title = 'Avengers', Duration = '195m', Rating = '5stars' WHERE (MovieID = '2');

Result Grid

MovieID	ProducerID	Title	Duration	Rating
1	1	SpiderMan3	168m	3stars
2	2	Avengers	195m	5stars
3	3	LoveMe	148m	3stars
4	4	MortalKombat	110m	4stars
5	5	BlackPanther	135m	5stars

movie 5 x

Output

Action Output

#	Time	Action	Message
233	01:53:42	INSERT INTO finalprojectfinaldbstructureandqueries.movie (MovieID, ProducerID, Title, Duration, Rating) VALUES ('1', '1', 'Spider...	Error Code: 1062. Duplicate entry '1' for key 'movie PRIMARY'
234	01:53:49	SELECT * FROM finalprojectfinaldbstructureandqueries.movie LIMIT 0, 1000	5 row(s) returned
235	01:56:17	UPDATE finalprojectfinaldbstructureandqueries.movie SET Title = 'LoveMe', Duration = '148m', Rating = '3stars' WHERE (MovieID = '3')	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0
236	01:56:17	UPDATE finalprojectfinaldbstructureandqueries.movie SET Title = 'Avengers', Duration = '195m', Rating = '5stars' WHERE (MovieID = ...	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0
237	01:56:25	SELECT * FROM finalprojectfinaldbstructureandqueries.movie LIMIT 0, 1000	5 row(s) returned

Object Info Session

## Producer Table

In this query I have the insert, the select and the update.

