

MySQL Comprehensive Assessment

- **TOPIC : LIBRARY MANAGEMENT SYSTEM**

We are going to build a project based on Library Management System. It keeps track of all information about books in the library, their cost, status and total number of books available in the library.

SCHEMAS

Filter objects

- companydb
- employee
- hospital
- library
 - Tables
 - Views
 - Stored Procedures
 - Functions
- office
- orgdb
- population
- product
- sales
- school
- school1

Administration Schemas

Information

No object selected

```

1  -- create the database.
2  • CREATE DATABASE Library;
3
4  • USE Library;
5
6  -- create Branch Table.
7  • CREATE TABLE Branch(
8      Branch_no INT PRIMARY KEY,
9      Manager_Id INT,
10     Branch_Address VARCHAR(200),
11     Contact_no VARCHAR(15)
12 );
13 • DESC Branch;
```

STEP – 01
Creating Database

Result Grid Filter Rows: Export: Wrap Cell Contents

Field	Type	Null	Key	Default	Extra
Branch_no	int	NO	PRI	NULL	
Manager_Id	int	YES		NULL	
Branch_Address	varchar(200)	YES		NULL	
Contact_no	varchar(15)	YES		NULL	

Result 1 x Read Only

Output

#	Time	Action	Message
✓ 1	18:14:19	CREATE DATABASE Library	1 row(s) affected
✓ 2	18:14:22	USE Library	0 row(s) affected
✓ 3	18:14:24	CREATE TABLE Branch(Branch_no INT PRIMARY KEY, Manager_Id INT, Branch...	0 row(s) affected
✓ 4	18:14:28	DESC Branch	4 row(s) returned

- Result Grid
- Form Editor
- Field Types
- Query Stats

Activat
Go to Set

Navigator

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedure

Functions

office

orgdb

population

product

sales

school

school1

Administration

Schemas

Information

No object selected

orgdb

prjct

Library Management System

Limit to 1000 rows

1

-- create the database.

2

CREATE DATABASE Library;

3

4

USE Library;

5

6

-- create Branch Table.

7

CREATE TABLE Branch(

8

Branch_no INT PRIMARY KEY,

9

Manager_Id INT,

10

Branch_Address VARCHAR(200),

11

Contact_no VARCHAR(15)

12

);

13

DESC Branch;

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

	Field	Type	Null	Key	Default	Extra
▶	Branch_no	int	NO	PRI	NULL	
	Manager_Id	int	YES		NULL	
	Branch_Address	varchar(200)	YES		NULL	
	Contact_no	varchar(15)	YES		NULL	

Result 1

Read Only

Output

Action Output

#	Time	Action	Message
✓ 1	18:14:19	CREATE DATABASE Library	1 row(s) affected
✓ 2	18:14:22	USE Library	0 row(s) affected
✓ 3	18:14:24	CREATE TABLE Branch(Branch_no INT PRIMARY KEY, Manager_Id INT, Branch...	0 row(s) affected
✓ 4	18:14:28	DESC Branch	4 row(s) returned

STEP - 02

Creating Table "Branch."

Result Grid

Form Editor

Field Types

Query Stats

Activated Go to Set

No object selected

STEP – 03

Creating Table “Employee”

	Field	Type	Null	Key	Default	Extra
▶	Emp_Id	int	NO	PRI	NULL	
	Emp_Name	varchar(100)	YES		NULL	
	Position	varchar(50)	YES		NULL	
	Salary	decimal(10,2)	YES		NULL	
	Branch no	int	YES	MUL	NULL	

Read Only

#	Time	Action	Message
3	16:28:32	CREATE TABLE Branch(Branch_no INT PRIMARY KEY, Manager_Id INT, Branc...	0 row(s) affected
4	16:28:40	DESC Branch	4 row(s) returned
5	16:31:46	CREATE TABLE Employee(Emp_Id INT PRIMARY KEY, Emp_Name VARCHAR(10...	0 row(s) affected
6	16:31:52	DESC Employee	5 row(s) returned

Activat
Go to Se

No object selected

```
27 • CREATE TABLE Books(  
28     ISBN INT PRIMARY KEY,  
29     Book_title VARCHAR(200),  
30     Category VARCHAR(100),  
31     Rental_Price DECIMAL(10,2),  
32     Status ENUM( 'Yes', 'No'),  
33     Author VARCHAR(100),  
34     Publisher VARCHAR(100)  
35 );  
36 • DESC Books;
```

STEP – 04

Creating Table “Books”

Result Grid Filter Rows: Export: Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	ISBN	int	NO	PRI	<u>NULL</u>	
	Book_title	varchar(200)	YES		<u>NULL</u>	
	Category	varchar(100)	YES		<u>NULL</u>	
	Rental_Price	decimal(10,2)	YES		<u>NULL</u>	
	Status	enum('Yes','No')	YES		<u>NULL</u>	
	Author	varchar(100)	YES		<u>NULL</u>	
	Publisher	varchar(100)	YES		<u>NULL</u>	

Result 3

Read Only

Output

Action Output

#	Time	Action	Message
5	16:31:46	CREATE TABLE Employee(Emp_Id INT PRIMARY KEY, Emp_Name VARCHAR(10...	0 row(s) affected
6	16:31:52	DESC Employee	5 row(s) returned
7	16:32:48	CREATE TABLE Books(ISBN INT PRIMARY KEY, Book_title VARCHAR(200), C...	0 row(s) affected
8	16:32:53	DESC Books	7 row(s) returned

Activate
Go to Settings

Navigation

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedure

Functions

office

orgdb

population

product

sales

school

school1

Administration

Schemas

No object selected

orgdb

proj

Library Management System

Limit to 1000 rows

37

-- create Customer Table.

38

39

CREATE TABLE Customer(

40

Customer_Id INT PRIMARY KEY,

41

Customer_name VARCHAR(100),

42

Customer_adress VARCHAR(100),

43

Reg_date DATE

44

);

45

DESC Customer;

46

47

-- create IssuesStatus Table.

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	Customer_Id	int	NO	PRI	NULL	
	Customer_name	varchar(100)	YES		NULL	
	Customer_adress	varchar(100)	YES		NULL	
	Reg_date	date	YES		NULL	

Result 4

Output

Action Output

#	Time	Action	Message
7	16:32:48	CREATE TABLE Books(ISBN INT PRIMARY KEY, Book_title VARCHAR(200), C...	0 row(s) affected
8	16:32:53	DESC Books	7 row(s) returned
9	16:36:52	CREATE TABLE Customer(Customer_Id INT PRIMARY KEY, Customer_name VARC...	0 row(s) affected
10	16:36:56	DESC Customer	4 row(s) returned

Result Grid

Form Editor

Field Types

Query Stats

Read Only

Activated

Go to Set

STEP – 05
Creating Table “Customer”

Navigation

Schemas

Filter objects

companydb

employee

hospital

office

orgdb

population

product

sales

school

school1

sys

temdb

tempdb

Administration

Schemas

Information

No object selected

orgdbprjctLibrary Management System

Limit to 1000 rows

49

50

51

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59

CREATE TABLE IssuesStatus(
 Issue_Id INT PRIMARY KEY,
 Issued_cust INT,
 Issued_book_name VARCHAR(200),
 Issued_date DATE,
 Isbn_book VARCHAR(100),
 FOREIGN KEY (Issued_cust) REFERENCES Customer(Customer_Id),
 FOREIGN KEY (Isbn_book) REFERENCES Books(ISBN)
);
DESC IssuesStatus;

STEP-06

Creating Table "IssuesStatus"

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	Issue_Id	int	NO	PRI	NULL	
	Issued_cust	int	YES	MUL	NULL	
	Issued_book_name	varchar(200)	YES		NULL	
	Issued_date	date	YES		NULL	
	Isbn_book	varchar(100)	YES	MUL	NULL	

Result 1

Read Only

Output

Action Output

#	Time	Action	Message
6	16:46:52	CREATE TABLE Books(ISBN VARCHAR(100) PRIMARY KEY, Book_title VARCHA...	0 row(s) affected
7	16:46:56	CREATE TABLE Customer(Customer_Id INT PRIMARY KEY, Customer_name VARC...	0 row(s) affected
8	16:47:05	CREATE TABLE IssuesStatus(Issue_Id INT PRIMARY KEY, Issued_cust INT, Iss...	0 row(s) affected
9	16:47:11	DESC IssuesStatus	5 row(s) returned

Activate

Go to Set

```
61 CREATE TABLE ReturnStatus(  
62     Return_Id INT PRIMARY KEY,  
63     Return_cust INT,  
64     Return_book_name VARCHAR(200),  
65     Return_date DATE,  
66     Isbn_book2 VARCHAR(100),  
67     FOREIGN KEY (Return_cust) REFERENCES Customer(Customer_Id),  
68     FOREIGN KEY (Isbn_book2) REFERENCES Books(ISBN)  
69 );  
70 DESC ReturnStatus;  
71
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
►	Return_Id	int	NO	PRI	NULL	
	Return_cust	int	YES	MUL	NULL	
	Return_book_name	varchar(200)	YES		NULL	
	Return_date	date	YES		NULL	
	Isbn_book2	varchar(100)	YES	MUL	NULL	

STEP-07

Creating table "ReturnStatus"

Result 2 x

Output

Action Output

#	Time	Action	Message
8	16:47:05	CREATE TABLE IssuesStatus(Issue_Id INT PRIMARY KEY, Issued_cust INT, Iss...	0 row(s) affected
9	16:47:11	DESC IssuesStatus	5 row(s) returned
10	16:47:51	CREATE TABLE ReturnStatus(Return_Id INT PRIMARY KEY, Return_cust INT, ...	0 row(s) affected
11	16:47:54	DESC ReturnStatus	5 row(s) returned



Result Grid

Form
Editor

Field Types

Query
Stats

Read Only

Activat
Go to Set

Navigation

orgdbprjctLibrary Management System

Limit to 1000 rows

SCHEMAS

Filter objects

companydb
employee
hospital
library
Tables
Views
Stored Procedure
Functions
office
orgdb
population
product
sales
school
school1

72

INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no)

73

VALUES

74

(1, 101, '123 Main St, City A', '555-1234'),

75

(2, 102, '456 Oak St, City B', '555-5678'),

76

(3, 103, '789 Pine St, City C', '555-9012'),

77

(4, 104, '321 Maple St, City D', '555-3456'),

78

(5, 105, '654 Elm St, City E', '555-7890'),

79

(6, 106, '987 Birch St, City F', '555-2345'),

80

(7, 107, '432 Cedar St, City G', '555-6789'),

81

(8, 108, '876 Willow St, City H', '555-0123'),

82

(9, 109, '345 Aspen St, City I', '555-3456'),

83

(10, 110, '567 Poplar St, City J', '555-6780');

84

STEP - 08

Insert Values in each tables

AdministrationSchemas

Information

No object selected

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	Branch_no	Manager_Id	Branch_Address	Contact_no
▶	1	101	123 Main St, City A	555-1234
	2	102	456 Oak St, City B	555-5678
	3	103	789 Pine St, City C	555-9012
	4	104	321 Maple St, City D	555-3456
	5	105	654 Elm St, City E	555-7890
	6	106	987 Birch St, City F	555-2345
	7	107	432 Cedar St, City G	555-6789
	8	108	876 Willow St, City H	555-0123
	9	109	345 Aspen St, City I	555-3456
	10	110	567 Poplar St, City J	555-6780
•	NULL	NULL	NULL	NULL

Branch 2

Apply

Output

Action Output

#	Time	Action	Message
✓ 8	18:17:38	CREATE TABLE IssuesStatus(Issue_Id INT PRIMARY KEY, Issued_cust INT, Iss...	0 row(s) affected
✓ 9	18:17:43	CREATE TABLE ReturnStatus(Return_Id INT PRIMARY KEY, Return_cust INT, ...	0 row(s) affected
✓ 10	18:17:58	INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VALUE...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 11	18:18:09	SELECT * FROM Branch LIMIT 0, 1000	10 row(s) returned

Object Info

Session

Result Grid

Form Editor

Field Types

Query Stats

Activate

Go to Se

Navigation

orgdb

prjct

Library Management System

SCHEMAS

Filter objects

companydb

employee

hospital

library

office

orgdb

population

product

sales

school

school1

Administration

Schemas

No object selected

Limit to 1000 rows

87

88

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INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no)

VALUES

(101, 'John Doe', 'Manager', 75000, 1),

(102, 'Jane Smith', 'Librarian', 55000, 2),

(103, 'Emily Johnson', 'Assistant Librarian', 45000, 3),

(104, 'Michael Brown', 'Clerk', 40000, 4),

(105, 'Sarah Davis', 'Manager', 80000, 5),

(106, 'Chris Wilson', 'Librarian', 60000, 6),

(107, 'Nancy White', 'Assistant Librarian', 47000, 7),

(108, 'Paul Green', 'Clerk', 42000, 8),

(109, 'Rachel Black', 'Manager', 85000, 9),

(110, 'Laura Blue', 'Librarian', 58000, 10);

SELECT * FROM Employee;

Result Grid

Filter Rows:

Edits

Export/Import:

Wrap Cell Content:

Emp_Id	Emp_Name	Position	Salary	Branch_no
101	John Doe	Manager	75000.00	1
102	Jane Smith	Librarian	55000.00	2
103	Emily Johnson	Assistant Librarian	45000.00	3
104	Michael Brown	Clerk	40000.00	4
105	Sarah Davis	Manager	80000.00	5
106	Chris Wilson	Librarian	60000.00	6
107	Nancy White	Assistant Librarian	47000.00	7
108	Paul Green	Clerk	42000.00	8
109	Rachel Black	Manager	85000.00	9
110	Laura Blue	Librarian	58000.00	10
NULL	NULL	NULL	NULL	NULL

Employee 3

Apply

Output

Action Output

#	Time	Action	Message
✓ 10	18:17:58	INSERT INTO Branch (Branch_no, Manager_Id, Branch_address, Contact_no) VALUE...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 11	18:18:09	SELECT * FROM Branch LIMIT 0, 1000	10 row(s) returned
✓ 12	18:19:54	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES (...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 13	18:20:00	SELECT * FROM Employee LIMIT 0, 1000	10 row(s) returned

Object Info

Session

Navigation

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

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school

school1

Administration

Schemas

No object selected

Library Management System

Limit to 1000 rows

VALUES

102

103

104

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114

(201, 'Alice Green', '101 First St, City A', '2022-05-15'),

(202, 'Bob White', '202 Second St, City B', '2023-01-20'),

(203, 'Charlie Black', '303 Third St, City C', '2021-11-11'),

(204, 'Diana Blue', '404 Fourth St, City D', '2023-06-05'),

(205, 'Eve Red', '505 Fifth St, City E', '2021-12-25'),

(206, 'Frank Yellow', '606 Sixth St, City F', '2022-03-30'),

(207, 'Grace Pink', '707 Seventh St, City G', '2023-04-15'),

(208, 'Henry Orange', '808 Eighth St, City H', '2022-07-20'),

(209, 'Ivy Purple', '909 Ninth St, City I', '2021-09-18'),

(210, 'Jack Brown', '100 Tenth St, City J', '2022-02-22');

SELECT * FROM Customer;

Result Grid

Filter Rows:

Edit

Export/Import

Wrap Cell Content

	Customer_Id	Customer_name	Customer_adress	Reg_date
▶	201	Alice Green	101 First St, City A	2022-05-15
	202	Bob White	202 Second St, City B	2023-01-20
	203	Charlie Black	303 Third St, City C	2021-11-11
	204	Diana Blue	404 Fourth St, City D	2023-06-05
	205	Eve Red	505 Fifth St, City E	2021-12-25
	206	Frank Yellow	606 Sixth St, City F	2022-03-30
	207	Grace Pink	707 Seventh St, City G	2023-04-15
	208	Henry Orange	808 Eighth St, City H	2022-07-20
	209	Ivy Purple	909 Ninth St, City I	2021-09-18
	210	Jack Brown	100 Tenth St, City J	2022-02-22
•	NULL	NULL	NULL	NULL

Customer 4

Apply

Output

Action Output

#	Time	Action	Message
✓ 12	18:19:54	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES (...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 13	18:20:00	SELECT * FROM Employee LIMIT 0, 1000	10 row(s) returned
✓ 14	18:21:28	INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date) ...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 15	18:21:31	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned

Object Info

Session

Result Grid

Form Editor

Field Types

Query Stats

Navigation

orgdb

prjct

Library Management System

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedure

Functions

office

orgdb

population

product

sales

school

school1

Limit to 1000 rows

VALUES

116

117

118

119

120

121

122

123

124

125

126

127

128

('978-3-16-148410-0', 'The Great Gatsby', 'Fiction', 30, 'yes', 'F. Scott Fitzgerald', 'Scribner'),

('978-0-14-017739-8', '1984', 'Dystopian', 25, 'no', 'George Orwell', 'Secker & Warburg'),

('978-1-56619-909-4', 'A Brief History of Time', 'Science', 40, 'yes', 'Stephen Hawking', 'Bantam Books'),

('978-0-7432-7356-5', 'The Da Vinci Code', 'Mystery', 35, 'yes', 'Dan Brown', 'Doubleday'),

('978-0-553-21311-7', 'To Kill a Mockingbird', 'Fiction', 28, 'no', 'Harper Lee', 'J.B. Lippincott & Co.'),

('978-1-4028-9462-6', 'The Catcher in the Rye', 'Fiction', 22, 'yes', 'J.D. Salinger', 'Little, Brown and Company'),

('978-0-452-28423-4', 'Brave New World', 'Dystopian', 30, 'no', 'Aldous Huxley', 'Chatto & Windus'),

('978-0-316-76948-8', 'Becoming', 'Biography', 50, 'yes', 'Michelle Obama', 'Crown Publishing'),

('978-0-8129-9319-0', 'Sapiens', 'Non-Fiction', 45, 'yes', 'Yuval Noah Harari', 'Harper'),

('978-0-399-58817-4', 'The Book Thief', 'Historical Fiction', 38, 'no', 'Markus Zusak', 'Picador');

SELECT * FROM Books;

Administration

Schemas

No object selected

Result Grid

Filter Rows:

Edit

Export/Import

Wrap Cell Content

ISBN	Book_title	Category	Rental_Price	Status	Author	Publisher
978-0-14-017739-8	1984	Dystopian	25.00	No	George Orwell	Secker & Warburg
978-0-316-76948-8	Becoming	Biography	50.00	Yes	Michelle Obama	Crown Publishing
978-0-399-58817-4	The Book Thief	Historical Fiction	38.00	No	Markus Zusak	Picador
978-0-452-28423-4	Brave New World	Dystopian	30.00	No	Aldous Huxley	Chatto & Windus
978-0-553-21311-7	To Kill a Mockingbird	Fiction	28.00	No	Harper Lee	J.B. Lippincott & Co.
978-0-7432-7356-5	The Da Vinci Code	Mystery	35.00	Yes	Dan Brown	Doubleday
978-0-8129-9319-0	Sapiens	Non-Fiction	45.00	Yes	Yuval Noah Harari	Harper
978-1-4028-9462-6	The Catcher in the Rye	Fiction	22.00	Yes	J.D. Salinger	Little, Brown and Company
978-1-56619-909-4	A Brief History of Time	Science	40.00	Yes	Stephen Hawking	Bantam Books
978-3-16-148410-0	The Great Gatsby	Fiction	30.00	Yes	F. Scott Fitzgerald	Scribner
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Books 5

Apply

Output

Action Output

#	Time	Action	Message
14	18:21:28	INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date) ...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
15	18:21:31	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned
16	18:22:35	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publish...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
17	18:22:38	SELECT * FROM Books LIMIT 0, 1000	10 row(s) returned

Navigator

Schemas

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedures

Functions

office

orgdb

population

product

sales

school

school1

Administration

Schemas

No object selected

orgdbprjctLibrary Management System

Limit to 1000 rows

131

(301, 201, 'The Great Gatsby', '2023-07-01', '978-3-16-148410-0'),

132

(302, 202, '1984', '2023-06-15', '978-0-14-017739-8'),

133

(303, 203, 'The Da Vinci Code', '2023-08-10', '978-0-7432-7356-5'),

134

(304, 204, 'A Brief History of Time', '2023-06-25', '978-1-56619-909-4'),

135

(305, 205, 'To Kill a Mockingbird', '2022-12-01', '978-0-553-21311-7'),

136

(306, 206, 'The Catcher in the Rye', '2023-07-20', '978-1-4028-9462-6'),

137

(307, 207, 'Brave New World', '2023-04-05', '978-0-452-28423-4'),

138

(308, 208, 'Becoming', '2023-03-12', '978-0-316-76948-8'),

139

(309, 209, 'Sapiens', '2023-09-10', '978-0-8129-9319-0'),

140

(310, 210, 'The Book Thief', '2023-01-15', '978-0-399-58817-4');

141

142

SELECT * FROM IssuesStatus;

143

Result Grid

Filter Rows:

Edit

Export/Import

Wrap Cell Content

	Issue_Id	Issued_cust	Issued_book_name	Issued_date	Isbn_book
▶	301	201	The Great Gatsby	2023-07-01	978-3-16-148410-0
	302	202	1984	2023-06-15	978-0-14-017739-8
	303	203	The Da Vinci Code	2023-08-10	978-0-7432-7356-5
	304	204	A Brief History of Time	2023-06-25	978-1-56619-909-4
	305	205	To Kill a Mockingbird	2022-12-01	978-0-553-21311-7
	306	206	The Catcher in the Rye	2023-07-20	978-1-4028-9462-6
	307	207	Brave New World	2023-04-05	978-0-452-28423-4
	308	208	Becoming	2023-03-12	978-0-316-76948-8
	309	209	Sapiens	2023-09-10	978-0-8129-9319-0
	310	210	The Book Thief	2023-01-15	978-0-399-58817-4
•	NULL	NULL	NULL	NULL	NULL

IssuesStatus 6

Apply

Output

Action Output

#	Time	Action	Message
✓ 16	18:22:35	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publish...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 17	18:22:38	SELECT * FROM Books LIMIT 0, 1000	10 row(s) returned
✓ 18	18:23:10	INSERT INTO IssuesStatus (Issue_Id, Issued_cust, Issued_book_name, Issued_date, I...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 19	18:23:15	SELECT * FROM IssuesStatus LIMIT 0, 1000	10 row(s) returned

Object Info

Session

****QUERIES****

1. Retrieve the book title, category, and rental price of all available books.

The screenshot displays a database management system interface with a sidebar on the left containing a tree view of schemas (companydb, employee, hospital, library, office, orgdb, population, product, sales, school, school1) and a main workspace on the right. The workspace is titled 'Library Management System' and shows a SQL query in a text editor. The query is as follows:

```
160 /*Queries*/
161
162 -- 1. Retrieve the book title, category, and rental price of all available books.
163 • SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes';
164
165 -- 2. List the employee names and their respective salaries in descending order of salary.
166 • SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC;
167
168 -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
169 • SELECT B.Book_title, C.Customer_name FROM Books B
170 JOIN IssuesStatus I ON B.ISBN = I.Isbn_book
171 JOIN Customer C ON I.Issued_cust = C.Customer_Id;
```

Below the query editor, the 'Result Grid' tab is active, displaying a table with the following data:

Book_title	Category	Rental_Price
Becoming	Biography	50.00
The Da Vinci Code	Mystery	35.00
Sapiens	Non-Fiction	45.00
The Catcher in the Rye	Fiction	22.00
A Brief History of Time	Science	40.00
The Great Gatsby	Fiction	30.00

At the bottom of the interface, the 'Action Output' tab is active, showing a log of database actions:

#	Time	Action	Message
20	18:24:36	INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_dat...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
21	18:24:44	SELECT * FROM ReturnStatus LIMIT 0, 1000	10 row(s) returned
22	18:26:29	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes' LIMIT...	6 row(s) returned

2. List the employee names and their respective salaries in descending order of salary.

The screenshot shows a database management system interface with a query editor and a result grid. The query editor contains three SQL queries. The second query, which is highlighted, is: `SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC;`. The result grid below the query editor displays the results of this query, showing a list of employees and their salaries in descending order.

Query Editor:

```
160 /*Queries*/
161
162 -- 1. Retrieve the book title, category, and rental price of all available books.
163 • SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes';
164
165 -- 2. List the employee names and their respective salaries in descending order of salary.
166 • SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC;
167
168 -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
169 • SELECT B.Book_title, C.Customer_name FROM Books B
170 JOIN IssuesStatus I ON B.ISBN = I.Isbn_book
171 JOIN Customer C ON I.Issued_cust = C.Customer_Id;
```

Result Grid:

Emp_name	Salary
Rachel Black	85000.00
Sarah Davis	80000.00
John Doe	75000.00
Chris Wilson	60000.00
Laura Blue	58000.00
Jane Smith	55000.00
Nancy White	47000.00
Emily Johnson	45000.00
Paul Green	42000.00
Michael Brown	40000.00

Output:

#	Time	Action	Message
21	18:24:44	SELECT * FROM ReturnStatus LIMIT 0, 1000	10 row(s) returned
22	18:26:29	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes' LIMIT...	6 row(s) returned
23	18:28:33	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	10 row(s) returned

3. Retrieve the book titles and the corresponding customers who have issued those books.

Navigator

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedures

Functions

office

orgdb

population

product

sales

school

school1

Administration

Schemas

Information

No object selected

orgdb

prjct

Library Management System

Limit to 1000 rows

163

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1000

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Category

Total_Books

Dystopian

2

Biography

1

Historical Fiction

1

Fiction

3

Mystery

1

Non-Fiction

1

Science

1

Result 11

Read Only

Output

Action Output

#

Time

Action

Message

23

18:28:33

SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000

10 row(s) returned

24

18:29:20

SELECT B.Book_title, C.Customer_name FROM Books B JOIN IssuesStatus I ON B.ISBN = I.Isbn_book

10 row(s) returned

25

18:30:24

SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIMIT 0, 1000

7 row(s) returned

Object Info

Session

Activate

Go to Set

4. Display the total count of books in each category.

Navigation

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedures

Functions

office

orgdb

population

product

sales

school

school1

Administration

Schemas

No object selected

orgdb

prjct

Library Management System

Limit to 1000 rows

163

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174

SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'Yes';

-- 2. List the employee names and their respective salaries in descending order of salary.

SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC;

-- 3. Retrieve the book titles and the corresponding customers who have issued those books.

SELECT B.Book_title, C.Customer_name FROM Books B

JOIN IssuesStatus I ON B.ISBN = I.Isbn_book

JOIN Customer C ON I.Issued_cust = C.Customer_Id;

-- 4. Display the total count of books in each category.

SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Category	Total_Books
Dystopian	2
Biography	1
Historical Fiction	1
Fiction	3
Mystery	1
Non-Fiction	1
Science	1

Result 11

Output

Action Output

#	Time	Action	Message
23	18:28:33	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 1000	10 row(s) returned
24	18:29:20	SELECT B.Book_title, C.Customer_name FROM Books B JOIN IssuesStatus I ON B.IS...	10 row(s) returned
25	18:30:24	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIM...	7 row(s) returned

Activate

Go to Set

5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.

The screenshot shows a database management interface with a left-hand sidebar containing a tree view of schemas. The 'library' schema is selected, showing tables, views, stored procedures, and functions. The main area displays a SQL script with several queries. The last query is highlighted: `SELECT Emp_name, Position FROM Employee WHERE Salary > 50000;`. Below the script, the 'Result Grid' shows the output of this query, displaying a table with two columns: 'Emp_name' and 'Position'. The table contains six rows of data. At the bottom, the 'Output' pane shows the execution log, indicating that the last query returned 6 rows.

Schemas

- companydb
- employee
- hospital
- library**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- office
- orgdb
- population
- product
- sales
- school
- school1

SQL Script

```
166 • SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC;
167
168 -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
169 • SELECT B.Book_title, C.Customer_name FROM Books B
170 JOIN IssuesStatus I ON B.ISBN = I.Isbn_book
171 JOIN Customer C ON I.Issued_cust = C.Customer_Id;
172
173 -- 4. Display the total count of books in each category.
174 • SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category;
175
176 -- 5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.
177 • SELECT Emp_name, Position FROM Employee WHERE Salary > 50000;
```

Result Grid

Emp_name	Position
John Doe	Manager
Jane Smith	Librarian
Sarah Davis	Manager
Chris Wilson	Librarian
Rachel Black	Manager
Laura Blue	Librarian

Output

#	Time	Action	Message
✓ 24	18:29:20	SELECT B.Book_title, C.Customer_name FROM Books B JOIN IssuesStatus I ON B.IS...	10 row(s) returned
✓ 25	18:30:24	SELECT Category, COUNT(*) AS Total_Books FROM Books GROUP BY Category LIM...	7 row(s) returned
✓ 26	18:31:00	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 1000	6 row(s) returned

6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

Navigator

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedure

Functions

office

orgdb

population

product

sales

school

school1

Administration

Schemas

Information

No object selected

orgdb

prjct

Library Management System

Limit to 1000 rows

-- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (SELECT issued_cust FROM IssuesStatus);

INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date) VALUES (11, 'Jane Doe', '789 Cypress St, City K', '2021-12-15');

INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date) VALUES('12', 'Frank Thomas', '234 Cedar St', '2021-10-15');

Result Grid

Filter Rows:

Exports

Wrap Cell Content:

customer_name

Jane Doe

Frank Thomas

customer 2

Read Only

Output

Action Output

#	Time	Action	Message
1	18:41:23	USE Library	0 row(s) affected
2	18:41:55	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Custo...	1 row(s) returned
3	18:43:50	INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date) V...	1 row(s) affected
4	18:43:56	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Custo...	2 row(s) returned

7. Display the branch numbers and the total count of employees in each branch.

Navigation

Schemas

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedures

Functions

office

orgdb

population

product

sales

school

school1

Administration

Schemas

Information

No object selected

orgdb

prjct

Library Management System

Limit to 1000 rows

180

181

182

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184

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188

189

SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (SELECT issued_cust FROM IssuesStatus);

INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date)

VALUES (11, 'Jane Doe', '789 Cypress St, City K', '2021-12-15');

INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date)

VALUES('12', 'Frank Thomas', '234 Cedar St', '2021-10-15');

-- 7. Display the branch numbers and the total count of employees in each branch.

SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no;

Result Grid

Filter Rows:

Export

Wrap Cell Content:

Branch_no	Total_Employees
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1

Result 3

Read Only

Output

Action Output

#	Time	Action	Message
1	18:41:23	USE Library	0 row(s) affected
2	18:41:55	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Custo...	1 row(s) returned
3	18:43:50	INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date) V...	1 row(s) affected
4	18:43:56	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Custo...	2 row(s) returned
5	18:45:17	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bran...	10 row(s) returned

8. Display the names of customers who have issued books in the month of June 2023.

Navigator

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedure

Functions

office

orgdb

population

product

sales

school

school1

Administration

Schemas

Information

orgdb

prjct

Library Management System

Limit to 1000 rows

185

186

187

188

189

190

191

192

193

194

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Customer_name
Bob White
Diana Blue

Result 4

Output

Action Output

#	Time	Action	Message
1	18:41:23	USE Library	0 row(s) affected
2	18:41:55	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Custo...	1 row(s) returned
3	18:43:50	INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date) V...	1 row(s) affected
4	18:43:56	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Custo...	2 row(s) returned
5	18:45:17	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bran...	10 row(s) returned
6	18:47:58	SELECT C.Customer_name FROM Customer C JOIN IssuesStatus I ON C.Customer_Id = I...	2 row(s) returned

No object selected

Result Grid

Form Editor

Field Types

9. Retrieve book_title from book table containing history.

The screenshot displays a database management system interface with the following components:

- Navigator:** A sidebar on the left showing a tree of objects. The 'library' schema is selected, and the 'Tables' folder is expanded. The 'Books' table is highlighted.
- SQL Editor:** The main area contains three SQL queries:

```
188 -- 7. Display the branch numbers and the total count of employees in each branch.
189 • SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no;
190
191 -- 8. Display the names of customers who have issued books in the month of June 2023.
192 • SELECT C.Customer_name FROM Customer C
193 JOIN IssuesStatus I ON C.Customer_Id = I.Issued_cust
194 WHERE I.Issued_date BETWEEN '2023-06-01' AND '2023-06-30';
195
196 -- 9. Retrieve book_title from book table containing history.
197 • SELECT Book_title FROM Books WHERE Book_title LIKE '%history%';
```
- Result Grid:** A table showing the results of the third query:

Book_title
A Brief History of Time
- Output:** A log of database actions and their results:

#	Time	Action	Message
✓ 1	18:41:23	USE Library	0 row(s) affected
✓ 2	18:41:55	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Custo...	1 row(s) returned
✓ 3	18:43:50	INSERT INTO Customer (Customer_Id, Customer_name, Customer_adress, Reg_date) V...	1 row(s) affected
✓ 4	18:43:56	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Custo...	2 row(s) returned
✓ 5	18:45:17	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bran...	10 row(s) returned
✓ 6	18:47:58	SELECT C.Customer_name FROM Customer C JOIN IssuesStatus I ON C.Customer_id = I...	2 row(s) returned
✓ 7	18:48:25	SELECT Book_title FROM Books WHERE Book_title LIKE "%history%" LIMIT 0, 1000	1 row(s) returned

10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees

Navigation pane

Schemas

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedures

Functions

office

orgdb

population

product

sales

school

school1

Administration Schemas

No object selected

orgdb prjct Library Management System

Limit to 1000 rows

198

199 -- 10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees.

200 • SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Branch_no HAVING COUNT(*) > 5;

201

202 • INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES

203 (201, 'Alice Johnson', 'Librarian', 55000, 1),

204 (202, 'Bob Smith', 'Assistant Librarian', 48000, 1),

205 (203, 'Charlie Brown', 'Librarian', 57000, 1),

206 (204, 'Diana Ross', 'Assistant Librarian', 46000, 1),

207 (205, 'Edward Green', 'Librarian', 52000, 1),

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Branch_no	Total_Employees
1	7

Result 7

Read Only

Output

Action Output

#	Time	Action	Message
✓ 3	18:43:50	INSERT INTO Customer (Customer_Id, Customer_name, Customer_address, Reg_date) ...	1 row(s) affected
✓ 4	18:43:56	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Cust...	2 row(s) returned
✓ 5	18:45:17	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	10 row(s) returned
✓ 6	18:47:58	SELECT C.Customer_name FROM Customer C JOIN IssuesStatus I ON C.Customer_Id ...	2 row(s) returned
✓ 7	18:48:25	SELECT Book_title FROM Books WHERE Book_title LIKE '%history%' LIMIT 0, 1000	1 row(s) returned
✓ 8	18:48:53	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	0 row(s) returned
✓ 9	18:50:42	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES (2...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0
✓ 10	18:50:51	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	1 row(s) returned

11. Retrieve the names of employees who manage branches and their respective branch addresses.

Navigation pane

Schemas

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedures

Functions

office

orgdb

population

product

sales

school

school1

Administration Schemas

No object selected

orgdb

prjct

Library Management System

Limit to 1000 rows

204 (202, 'Bob Smith', 'Assistant Librarian', 48000, 1),

205 (203, 'Charlie Brown', 'Librarian', 57000, 1),

206 (204, 'Diana Ross', 'Assistant Librarian', 46000, 1),

207 (205, 'Edward Green', 'Librarian', 52000, 1),

208 (206, 'Fiona White', 'Librarian', 51000, 1);

209

210 -- 11. Retrieve the names of employees who manage branches and their respective branch addresses.

211 SELECT E.Emp_name, B.Branch_address FROM Employee E

212 JOIN Branch B ON E.Emp_Id = B.Manager_Id;

213

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Emp_name	Branch_address
John Doe	123 Main St, City A
Jane Smith	456 Oak St, City B
Emily Johnson	789 Pine St, City C
Michael Brown	321 Maple St, City D
Sarah Davis	654 Elm St, City E
Chris Wilson	987 Birch St, City F
Nancy White	432 Cedar St, City G
Paul Green	876 Willow St, City H
Rachel Black	345 Aspen St, City I
Laura Blue	567 Poplar St, City J

Result 8

Read Only

Output

Action Output

#	Time	Action	Message
4	18:43:56	SELECT customer_name FROM customer WHERE Reg_date < '2022-01-01' AND Cust...	2 row(s) returned
5	18:45:17	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	10 row(s) returned
6	18:47:58	SELECT C.Customer_name FROM Customer C JOIN IssuesStatus I ON C.Customer_Id ...	2 row(s) returned
7	18:48:25	SELECT Book_title FROM Books WHERE Book_title LIKE "%history%" LIMIT 0, 1000	1 row(s) returned
8	18:48:53	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	0 row(s) returned
9	18:50:42	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES (2...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0
10	18:50:51	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	1 row(s) returned
11	18:52:35	SELECT E.Emp_name, B.Branch_address FROM Employee E JOIN Branch B ON E.Emp...	10 row(s) returned

Object Info

Session

12. Display the names of customers who have issued books with a rental price higher than Rs. 25.

SCHEMAS

Filter objects

companydb

employee

hospital

library

Tables

Views

Stored Procedures

Functions

office

orgdb

population

product

sales

school

school1

Administration Schemas

No object selected

orgdb

prjct

Library Management System

Limit to 1000 rows

11. Retrieve the names of employees who manage branches and their respective branch addresses.

SELECT E.Emp_name, B.Branch_address FROM Employee E

JOIN Branch B ON E.Emp_Id = B.Manager_Id;

12. Display the names of customers who have issued books with a rental price higher than Rs. 25.

SELECT C.Customer_name FROM Customer C

JOIN IssuesStatus I ON C.Customer_Id = I.Issued_cust

JOIN Books B ON I.Isbn_book = B.ISBN

WHERE B.Rental_Price > 25;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Result Grid

Form Editor

Field Types

Customer_name
Henry Orange
Jack Brown
Grace Pink
Eve Red
Charlie Black
Ivy Purple
Diana Blue
Alice Green

Result 9

Read Only

Output

Action Output

#	Time	Action	Message
5	18:45:17	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	10 row(s) returned
6	18:47:58	SELECT C.Customer_name FROM Customer C JOIN IssuesStatus I ON C.Customer_Id ...	2 row(s) returned
7	18:48:25	SELECT Book_title FROM Books WHERE Book_title LIKE "%history%" LIMIT 0, 1000	1 row(s) returned
8	18:48:53	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	0 row(s) returned
9	18:50:42	INSERT INTO Employee (Emp_Id, Emp_name, Position, Salary, Branch_no) VALUES (2...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0
10	18:50:51	SELECT Branch_no, COUNT(*) AS Total_Employees FROM Employee GROUP BY Bra...	1 row(s) returned
11	18:52:35	SELECT E.Emp_name, B.Branch_address FROM Employee E JOIN Branch B ON E.Ern...	10 row(s) returned
12	18:53:09	SELECT C.Customer_name FROM Customer C JOIN IssuesStatus I ON C.Customer_Id ...	8 row(s) returned

Object Info

Session

Activate Go to Settings

**** THANK YOU ****

**** THANK YOU ****