

Data sets in library Management System

1.Branch

The screenshot shows the MySQL Workbench interface with the 'my library management' database selected. The SQL editor contains the following code:

```
INSERT INTO branch (Branch_no, manager_Id, Branch_address, Contact_no)
VALUES
(1, 101, '123 Main St, Springfield', '555-1234'),
(2, 102, '456 Oak St, Rivertown', '555-5678'),
(3, 103, '789 Pine St, Laketown', '555-8765');

describe branch;
```

The 'Result Grid' shows the output of the 'describe branch;' query:

Branch_no	manager_id	Branch_address	contact_no
1	101	123 Main St, Springfield	555-1234
2	102	456 Oak St, Rivertown	555-5678
3	103	789 Pine St, Laketown	555-8765

The 'Output' pane shows the 'Action Output' for the 'branch' table creation and data insertion. The messages indicate that the table 'branch' was created successfully and the data was inserted without errors.

2. Employee

The screenshot shows the MySQL Workbench interface with the 'my library management' database selected. The SQL editor contains the following code:

```
describe Employee;
SELECT * from Employee;
/*INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher)
```

The 'Result Grid' shows the output of the 'describe Employee;' query:

Emp_id	Emp_name	position	salary	Branch_no
101	John Doe	Manager	60000.00	1
102	Jane Smith	Manager	62000.00	2
103	Emily Davis	Manager	59000.00	3
104	Michael Brown	Assistant	41,59000.00	1
105	Alice Johnson	Clerk	35000.00	2
106	Robert Wilson	Clerk	37000.00	3
107	Ethan Clark	Assistant	40000.00	1
108	Liam Scott	Clerk	35000.00	1
109	Noah White	Assistant	39000.00	1
110	Emma Martinez	Clerk	36000.00	1
111	Ava Anderson	Clerk	35500.00	1

The 'Output' pane shows the 'Action Output' for the 'Employee' table creation and data insertion. The messages indicate that the table 'Employee' was created successfully and the data was inserted without errors.

Data sets in library Management System

3. Books

The screenshot shows the MySQL Workbench interface with the 'my library management' database selected. The 'Books' table is displayed in the 'Result Grid' with the following data:

ISBN	Book_title	Category	Rental_price	Status	Author	Publisher
978-0-14-303943-3	The Selfish Gene	Science	45	no	Richard Dawkins	Oxford University Press
978-0-452-28423-4	1984	Dystopian	35	Yes	George Orwell	Secker & Warburg
978-0-7432-7356-5	To Kill a Mockingbird	Fiction	25	no	Harper Lee	J.B. Lippincott & Co.
978-1-86197-876-9	A Brief History of Time	Science history	40	Yes	Stephen Hawking	Bantam Books
978-3-16-148410-0	The Great Gatsby	Fiction	30	Yes	F. Scott Fitzgerald	Scribner

The 'Output' pane shows the following actions and messages:

#	Time	Action	Message	Duration / Fetch
276	15:18:29	create table IssueStatus(Issue_id int primary key, Issued_cust int, Issued_book_name varchar...	Error Code: 1050. Table 'issuestatus' already exists	0.000 sec
277	15:18:29	create table ReturnStatus(Return_id int primary key, Return_cust int, Return_Book_name va...	Error Code: 1050. Table 'returnstatus' already exists	0.000 sec
278	15:18:29	SHOW TABLES	6 row(s) returned	0.000 sec / 0.000 sec
279	15:18:29	INSERT INTO Books (ISBN, Book_title, Category, Rental_Price, Status, Author, Publisher) V...	Error Code: 1062. Duplicate entry '978-3-16-148410-0' for key 'books.PRIMARY'	0.000 sec
280	15:18:29	describe Books	7 row(s) returned	0.015 sec / 0.000 sec
281	15:18:29	SELECT * from Books LIMIT 0, 10	5 row(s) returned	0.000 sec / 0.000 sec

4.Customer

The screenshot shows the MySQL Workbench interface with the 'my library management' database selected. The 'customer' table is displayed in the 'Result Grid' with the following data:

Customer_id	Customer_name	Customer_address	Reg_date
201	William Johnson	123 Maple St, Springfield	2023-01-15
202	Sophia Brown	456 Elm St, Laketown	2022-06-20
203	James Miller	789 Oak St, Laketown	2021-12-05
204	Olivia Wilson	101 Pine St, Springfield	2023-07-10
205	Mia Davis	654 Birch St, Rivertown	2023-06-25

The 'Output' pane shows the following actions and messages:

#	Time	Action	Message	Duration / Fetch
299	15:22:00	create table IssueStatus(Issue_id int primary key, Issued_cust int, Issued_book_name varchar...	Error Code: 1050. Table 'issuestatus' already exists	0.000 sec
300	15:22:00	create table ReturnStatus(Return_id int primary key, Return_cust int, Return_Book_name va...	Error Code: 1050. Table 'returnstatus' already exists	0.016 sec
301	15:22:00	SHOW TABLES	6 row(s) returned	0.000 sec / 0.000 sec
302	15:22:00	INSERT INTO Customer (Customer_id, Customer_name, Customer_address, Reg_date) VAL...	Error Code: 1062. Duplicate entry '201' for key 'customer.PRIMARY'	0.000 sec
303	15:22:00	describe customer	4 row(s) returned	0.000 sec / 0.000 sec
304	15:22:00	SELECT * from customer LIMIT 0, 10	5 row(s) returned	0.000 sec / 0.000 sec

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5.Issue –Status

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
describe customer;
SELECT * from customer;
/*
INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Isbn_book)
VALUES
(301, 201, 'The Great Gatsby', '2023-07-01', '978-3-16-148410-0'),
(302, 202, 'A Brief History of Time', '2023-06-15', '978-1-86197-876-9');
```

The Result Grid shows the following data:

Issue_Id	Issued_cust	Issued_book_name	Issue_date	Isbn_book
301	201	The Great Gatsby	2023-07-01	978-3-16-148410-0
302	202	A Brief History of Time	2023-06-15	978-1-86197-876-9
303	204	1984	2023-07-11	978-0-452-28423-4

The Output pane shows the following messages:

- 335 15:25:58 create table ReturnStatus (Return_Id int primary key, Return_cust int, Return_Book_name va... Error Code: 1050. Table 'returnstatus' already exists 0.000 sec
- 336 15:25:58 SHOW TABLES 6 row(s) returned 0.000 sec / 0.000 sec
- 337 15:25:58 INSERT INTO IssueStatus (Issue_Id, Issued_cust, Issued_book_name, Issue_date, Isbn_book... Error Code: 1062. Duplicate entry '301' for key 'IssueStatus PRIMARY' 0.000 sec
- 338 15:25:58 describe IssueStatus 5 row(s) returned 0.016 sec / 0.000 sec
- 339 15:25:58 SELECT * from IssueStatus LIMIT 0, 10 3 row(s) returned 0.000 sec / 0.000 sec
- 340 15:25:58 : //INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date,... Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ... 0.000 sec

6.Return-status

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
SELECT Book_title, Category, Rental_Price
FROM Books
WHERE Status = 'yes';
SELECT * from ReturnStatus;
/*
SELECT Emp_name, Salary
FROM Employee
ORDER BY Salary DESC;
```

The Result Grid shows the following data:

Return_Id	Return_cust	Return_Book_name	Return_date	Isbn_book2
401	201	Great Gatsby	2023-07-15	978-3-16-148410-0
402	202	A Brief History of Time	2023-06-30	978-1-86197-876-9

The Output pane shows the following messages:

- 376 15:28:42 create table ReturnStatus (Return_Id int primary key, Return_cust int, Return_Book_name va... Error Code: 1050. Table 'returnstatus' already exists 0.000 sec
- 377 15:28:42 SHOW TABLES 6 row(s) returned 0.000 sec / 0.000 sec
- 378 15:28:42 INSERT INTO ReturnStatus (Return_Id, Return_cust, Return_book_name, Return_date, lab... Error Code: 1062. Duplicate entry '401' for key 'returnstatus PRIMARY' 0.000 sec
- 379 15:28:42 describe ReturnStatus 5 row(s) returned 0.000 sec / 0.000 sec
- 380 15:28:42 SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 10 3 row(s) returned 0.000 sec / 0.000 sec
- 381 15:28:42 SELECT * from ReturnStatus LIMIT 0, 10 2 row(s) returned 0.000 sec / 0.000 sec