

EXPERIMENT 1.2

Title: Insert Sample Records into Author and Book Tables

Description:

After creating the Authors and Books tables, your next task is to insert sample records. Insert **at least 3 authors and 3 books**, ensuring books reference valid authors using the foreign key.

Input Format:

- Pre-existing Authors and Books table structures from Problem 1.

Output Format:

Authors

Table:

author_id	name	country
1	Ashish	India
2	Smaran	USA
3	Vaibhav	UK

Books

Table:

book_id	title	author_id
101	Data Science Basics	1
102	AI in Education	2
103	SQL Simplified	1

Constraints:

- Insert meaningful names and countries (e.g., Ashish, Smaran, Vaibhav).
- Insert book titles that are easy to associate with those authors.
- Use valid foreign keys.

Sample Input:

Input tables Authors and Books

Sample Output:

Authors Table:

author_id	name	country
1	Ashish	India
2	Smaran	USA
3	Vaibhav	UK

Books Table

book_id	title	author_id
101	Data Science Basics	1
102	AI in Education	2
103	SQL Simplified	1

Query:

INSERT INTO Authors (author_id, name, country) VALUES

(1, 'Ashish', 'India'),

(2, 'Smaran', 'USA'),

(3, 'Vaibhav', 'UK');

INSERT INTO Books (book_id, title, author_id) VALUES

(101, 'Data Science Basics', 1),

(102, 'AI in Education', 2),

(103, 'SQL Simplified', 1);

Select * from Authors;

Select * from Books;

Output:

The screenshot shows a SQL IDE interface with a query editor on the left and an output pane on the right. The query editor contains SQL code to create two tables, insert data, and describe them. The output pane shows the execution results, including table schemas and data rows.

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18 CREATE TABLE authors (
19     author_id INT NOT NULL PRIMARY KEY,
20     name VARCHAR(50),
21     country VARCHAR(50)
22 );
23
24
25 CREATE TABLE books (
26     book_id INT NOT NULL PRIMARY KEY,
27     title VARCHAR(100),
28     author_id INT,
29     FOREIGN KEY (author_id) REFERENCES authors(author_id)
30 );
31 DESCRIBE authors;
32 DESCRIBE books;
33
34 INSERT INTO Authors (author_id, name, country) VALUES
35     (1, 'Ashish', 'India'),
36     (2, 'Smaran', 'USA'),
37     (3, 'Vaibhav', 'UK');
38
39
40 INSERT INTO Books (book_id, title, author_id) VALUES
41     (101, 'Data Science Basics', 1),
42     (102, 'AI in Education', 2),
43     (103, 'SQL Simplified', 1);
44
45
46 Select * from Authors;
47 Select * from Books;
```

The output pane displays the following results:

STDIN

Input for the program (Optional)

Field	Type	Null	Key	Default	Extra
author_id	int	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
country	varchar(50)	YES		NULL	

Field	Type	Null	Key	Default	Extra
book_id	int	NO	PRI	NULL	
title	varchar(100)	YES		NULL	
author_id	int	YES	MUL	NULL	

author_id	name	country
1	Ashish	India
2	Smaran	USA
3	Vaibhav	UK

book_id	title	author_id
101	Data Science Basics	1
102	AI in Education	2
103	SQL Simplified	1

Learning Outcome:

Learned how to create a tables.

Learned how to insert data into the records of the table.