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1      /* Database creation */
2      • CREATE DATABASE OnlineBookstore;
3      • USE OnlineBookstore;
4      /* Table creation */
5      • CREATE TABLE authors (
6          author_id INT PRIMARY KEY,
7          author_name VARCHAR(255),
8          country VARCHAR(100));
9      • CREATE TABLE books (
10         book_id INT PRIMARY KEY,
11         title VARCHAR(255),
12         author_id INT,
13         price DECIMAL(10, 2),
14         publication_year YEAR,
15         FOREIGN KEY (author_id) REFERENCES authors(author_id));
16      • CREATE TABLE orders (
17         order_id INT PRIMARY KEY,
18         book_id INT,
19         customer_name VARCHAR(200),
20         order_date DATE,
21         FOREIGN KEY (book_id) REFERENCES books(book_id));
22      /* Data Insertion */
23      • INSERT INTO authors (author_id, author_name, country) VALUES
24          (11, 'J.K.Maria', 'United Kingdom'),
25          (12, 'M.George', 'United Kingdom'),
26          (13, 'J.N.Tolkien', 'India'),
27          (14, 'Harper Lee', 'United States'),
28          (15, 'I.Novar', 'India');
29      • INSERT INTO books (book_id, title, author_id, price, publication_year) VALUES
30          (1001, 'A stone', 11, 67.99, 1990),

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31      (1002, '1984', 12, 59.99,1978),
32      (1003, 'The Hobbit', 13, 66.99,2000),
33      (1004, 'To Kill a bird', 14, 84.99,2003),
34      (1005,'Heaven fly',15,50.20,1998);
35 • INSERT INTO orders (order_id, book_id, customer_name, order_date) VALUES
36      (201,1001,'Alice', '2024-04-25'),
37      (202,1002,'Bob', '2025-01-24'),
38      (203,1003,'Charlie', '2023-07-23'),
39      (204,1004,'Diana', '2024-01-22'),
40      (205,1005,'Johncy', '2024-05-16');
41  /* Data Retrieval */
42 • SELECT * FROM books;
43 • SELECT * FROM authors;
44 • SELECT * FROM orders;
45  /* Data relationship
46  Update the "books" table to include a new column, genre.*/
47 • ALTER TABLE books
48      ADD COLUMN genre VARCHAR(50);
49  /* Update the "orders" table to include a new column, quantity. */
50 • ALTER TABLE orders
51      ADD COLUMN quantity INT;
52  /* Data Retrieval with Relationships:
53  Retrieve all books along with their author information. */
54 • SELECT books.book_id, books.title, books.price, books.publication_year, authors.author_name, authors.country
55      FROM books
56      JOIN authors ON books.author_id = authors.author_id;
57  /* Retrieve all orders along with the book title and customer information. */
58 • SELECT orders.order_id, orders.order_date, orders.customer_name, books.title AS book_title, books.price
59      FROM orders
60      JOIN books ON orders.book_id = books.book_id;

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Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
✓ 1	16:05:02	CREATE DATABASE OnlineBookstore	1 row(s) affected	0.000 sec
✓ 2	16:05:05	USE OnlineBookstore	0 row(s) affected	0.000 sec
✓ 3	16:05:08	CREATE TABLE authors (author_id INT PRIMARY KEY, author_name VARCHAR(255), country VARCHAR...	0 row(s) affected	0.032 sec
✓ 4	16:05:11	CREATE TABLE books (book_id INT PRIMARY KEY, title VARCHAR(255), author_id INT, price DECIM...	0 row(s) affected	0.031 sec
✓ 5	16:05:14	CREATE TABLE orders (order_id INT PRIMARY KEY, book_id INT, customer_name VARCHAR(200), or...	0 row(s) affected	0.063 sec
✓ 6	16:06:05	INSERT INTO authors (author_id, author_name, country) VALUES (11,'J.K.Maria', 'United Kingdom'), (12,'M.Ge...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec

Output					
Action Output					
#	Time	Action	Message	Duration / Fetch	
✖	7 16:06:12	INSERT INTO books (book_id, title, author_id, price, publication_year) VALUES (1001, 'A stone', 11, 67.99, 1990),...	Error Code: 1264. Out of range value for column 'publication_year' at row 2	0.032 sec	
✔	8 16:07:29	INSERT INTO books (book_id, title, author_id, price, publication_year) VALUES (1001, 'A stone', 11, 67.99, 1990),...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec	
✔	9 16:10:44	INSERT INTO orders (order_id, book_id, customer_name, order_date) VALUES (201, 1001, 'Alice', 2024-04-25), ...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec	
✔	10 16:14:02	SELECT * FROM books LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec	
✔	11 16:14:44	SELECT * FROM authors LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec	
✔	12 16:15:00	SELECT * FROM orders LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec	

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
✓ 11	16:14:44	SELECT * FROM authors LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
✓ 12	16:15:00	SELECT * FROM orders LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
✓ 13	16:17:16	ALTER TABLE books ADD COLUMN genre VARCHAR(50)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
✓ 14	16:18:34	ALTER TABLE orders ADD COLUMN quantity INT	ALTER TABLE books ADD COLUMN genre VARCHAR(50) 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.032 sec
✓ 15	16:21:51	SELECT books.book_id, books.title, books.price, books.publication_year, authors.author_name	5 row(s) returned	0.000 sec / 0.000 sec
✓ 16	16:23:26	SELECT orders.order_id, orders.order_date, orders.customer_name, books.title AS book_title, books.price FROM orders	5 row(s) returned	0.000 sec / 0.000 sec