

PROGRAM 7. BOOK DEALER DATABASE

The following tables are maintained by a book dealer:

AUTHOR(author-id: int, name: String, city: String, country: String)

PUBLISHER(publisher-id: int, name: String, city: String, country: String)

CATALOG (book-id: int, title: String, author-id: int, publisher-id: int, category-id: int, year: int, price: int)

CATEGORY(category-id: int, description: String)

ORDER-DETAILS(order-no: int, book-id: int, quantity: int)

- Create the above tables by properly specifying the primary keys and the foreign keys.
- Enter at least five tuples for each relation.
- Give the details of the authors who have 2 or more books in the catalog and the price of the books in the catalog and the year of publication is after 2000.
- Find the author of the book which has maximum sales.
- Demonstrate how you increase the price of books published by a specific publisher by 10%.

Showing rows 0 - 4 (5 total, Query took 0.0011 seconds.)

`SELECT * FROM `author``

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

				Author_id	Name	City	Country
<input type="checkbox"/>	Edit	Copy	Delete	1001	jk rowling	london	england
<input type="checkbox"/>	Edit	Copy	Delete	1002	chetan bhagat	mumbai	india
<input type="checkbox"/>	Edit	Copy	Delete	1003	john mcCarthy	chicago	usa
<input type="checkbox"/>	Edit	Copy	Delete	1004	dan brown	california	usa
<input type="checkbox"/>	Edit	Copy	Delete	1005	john green	berlin	germany

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

✔ Showing rows 0 - 6 (7 total, Query took 0.0011 seconds.)

SELECT * FROM `catalogue`

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

				Book_id	Book_title	Author_id	Publisher_id	Category_id	Year	Price
<input type="checkbox"/>	Edit	Copy	Delete	4001	HP and Goblet Of Fire	1001	2001	3001	2002	600
<input type="checkbox"/>	Edit	Copy	Delete	4002	HP and Order Of Phoenix	1001	2002	3001	2005	650
<input type="checkbox"/>	Edit	Copy	Delete	4003	Two States	1002	2004	3001	2009	65
<input type="checkbox"/>	Edit	Copy	Delete	4004	3 Mistakes of my life	1002	2004	3001	2007	55
<input type="checkbox"/>	Edit	Copy	Delete	4005	Da Vinci Code	1004	2003	3001	2004	450
<input type="checkbox"/>	Edit	Copy	Delete	4006	Angels and Demons	1004	2003	3001	2003	350
<input type="checkbox"/>	Edit	Copy	Delete	4007	Artificial Intelligence	1003	2002	3002	1970	500

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

✔ Showing rows 0 - 4 (5 total, Query took 0.0013 seconds.)

SELECT * FROM `category`

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

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				Category_id	Description
<input type="checkbox"/>	Edit	Copy	Delete	3001	Fiction
<input type="checkbox"/>	Edit	Copy	Delete	3002	Non-Fiction
<input type="checkbox"/>	Edit	Copy	Delete	3003	thriller
<input type="checkbox"/>	Edit	Copy	Delete	3004	action
<input type="checkbox"/>	Edit	Copy	Delete	3005	fiction

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

✔ Showing rows 0 - 7 (8 total, Query took 0.0007 seconds.)

SELECT * FROM `orderdetails`

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

				Order_no	Book_id	Quantity
<input type="checkbox"/>	Edit	Copy	Delete	5001	4001	5
<input type="checkbox"/>	Edit	Copy	Delete	5002	4002	7
<input type="checkbox"/>	Edit	Copy	Delete	5003	4003	15
<input type="checkbox"/>	Edit	Copy	Delete	5004	4004	11
<input type="checkbox"/>	Edit	Copy	Delete	5005	4005	9
<input type="checkbox"/>	Edit	Copy	Delete	5006	4006	8
<input type="checkbox"/>	Edit	Copy	Delete	5007	4007	2
<input type="checkbox"/>	Edit	Copy	Delete	5008	4004	3

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

✓ Showing rows 0 - 4 (5 total, Query took 0.0014 seconds.)

```
SELECT * FROM `publisher`
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

				Publisher_id	Name	City	Country
<input type="checkbox"/>				2001	Bloomsbury	London	England
<input type="checkbox"/>				2002	Scholastic	Washington	USA
<input type="checkbox"/>				2003	Pearson	London	England
<input type="checkbox"/>				2004	Rupa	Delhi	India
<input type="checkbox"/>				2005	stefan	Berlin	Germany

↑ ☐ Check all | With selected: Edit Copy Delete Export

3)

Show query box

✓ Showing rows 0 - 0 (1 total, Query took 0.1301 seconds.)

```
SELECT * FROM author WHERE author_id IN (SELECT author_id FROM catalogue WHERE Year>2000 AND price> (SELECT AVG(price) FROM catalogue) GROUP BY author_id HAVING COUNT(*)>1)
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

				Author_id	Name	City	Country
<input type="checkbox"/>				1001	jk rowling	london	england

↑ ☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

4)

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 0 (1 total, Query took 0.0153 seconds.)

```
SELECT name FROM author a,catalogue c WHERE a.author_id=c.author_id AND book_id IN (SELECT book_id FROM orderdetails WHERE quantity= (SELECT MAX(quantity) FROM orderdetails))
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

name
chetan bhagat

5)

Show query box

✓ 2 rows affected. (Query took 0.0536 seconds.)

```
UPDATE catalogue SET price=1.1*price WHERE publisher_id IN (SELECT publisher_id FROM publisher WHERE Name='pearson')
```

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