

# **DBMS LAB CIE 2 (OUTPUT)**

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## **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)**

**i) Create the above tables by properly specifying the primary keys and the foreign keys.**

**ii) Enter at least five tuples for each relation.**

**iii) 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.**

**iv.) Find the author of the book which has maximum sales.**

**v) Demonstrate how you increase the price of books published by a specific publisher by 10%.**

**vi) Get the Order Details of the Books published by a specific publisher(Eg Elsevier)**

## OUTPUT:

- i) Create the above tables by properly specifying the primary keys and the foreign keys.
- ii) Enter at least five tuples for each relation

## AUTHOR:

The screenshot displays a database management system interface with multiple tabs at the top: Query 1, Insurance\_DB, ORDERS\_DB, bank\_db, movie\_db, supplier, and stud\_fac. The 'Query 1' tab is active, showing a list of SQL queries. The first query is a multi-row insert statement for the 'AUTHOR' table, followed by five 'SELECT \* FROM' queries for 'AUTHOR', 'category', 'Catalog', 'orders', and 'publisher'. The 'Result Grid' at the bottom shows the data for the 'AUTHOR' table, with columns 'author\_id', 'a\_name', 'city', and 'country'. The grid contains five rows of data.

```
64 (3,13,15),
65 (4,14,22),
66 (5,15,3),/*ordered one*/
67 (6,17,10);
68 • SELECT*FROM AUTHOR;
69 • SELECT*FROM category;
70 • SELECT*FROM Catalog;
71 • SELECT*FROM orders;
72 • SELECT*FROM publisher;
73
74 /*
```

	author_id	a_name	city	country
▶	1001	TERAS CHAN	CA	USA
	1002	STEVENS	ZOMBI	UGANDA
	1003	M MANO	CAIR	CANADA
	1004	KARTHIK B.P.	NEW YORK	USA
	1005	WILLIAM STALLINGS	LAS VEGAS	USA

## CATEGORY:

Query 1 Insurance\_DB ORDERS\_DB bank\_db movie\_db supplier st

Limit to 1000 rows

```
64 (3,13,15),
65 (4,14,22),
66 (5,15,3),/*ordered one*/
67 (6,17,10);
68 • SELECT*FROM AUTHOR;
69 • SELECT*FROM category;
70 • SELECT*FROM Catalog;
71 • SELECT*FROM orders;
72 • SELECT*FROM publisher;
73
74 /*
```

Result Grid

	category_id	Description
▶	1001	COMPUTER SCIENCE
	1002	ALGORITHM DESIGN
	1003	ELECTRONICS
	1004	PROGRAMMING
	1005	OPERATING SYSTEMS

## CATALOG:

Insurance\_DB ORDERS\_DB bank\_db movie\_db supplier stud\_fac college\_db **cie2**

Limit to 1000 rows

```
64 (3,13,15),
65 (4,14,22),
66 (5,15,3),/*ordered one*/
67 (6,17,10);
68 • SELECT*FROM AUTHOR;
69 • SELECT*FROM category;
70 • SELECT*FROM Catalog;
71 • SELECT*FROM orders;
72 • SELECT*FROM publisher;
73
74 /*
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	book_id	title	author_id	publisher_id	category_id	p_year	PRICE
▶	11	Unix System Prg	1001	1	1001	2000	251
	12	Digital Signals	1002	2	1003	2001	425
	13	Logic Design	1003	3	1002	1999	225
	14	Server Prg	1004	4	1004	2001	333
	15	Linux OS	1005	5	1005	2003	326

## ORDER-DETAILS(ORDERS):

The screenshot shows a database management tool with multiple tabs: Insurance\_DB, ORDERS\_DB, bank\_db, movie\_db, supplier, stud\_fac, college\_db, and cie2. The ORDERS\_DB tab is active. The SQL editor contains the following queries:

```
67 (6,17,10);
68 • SELECT*FROM AUTHOR;
69 • SELECT*FROM category;
70 • SELECT*FROM Catalog;
71 • SELECT*FROM orders;
72 • SELECT*FROM publisher;
73
74 /*
75    iii) Give the details of the authors who have 2 or more books in the catalog and the p
76    catalog and the year of publication is after 2000.
77 */
```

Below the SQL editor is a "Result Grid" section. It includes a "Filter Rows" input field and buttons for "Edit", "Export/Import", and "Wrap Cell Content". The result grid displays the following data:

	order_no	book_id	qty
▶	1	11	5
	2	12	8
	3	13	15
	4	14	22
	5	15	3

## PUBLISHER:

The screenshot shows a database management interface with a top menu bar containing database names: Insurance\_DB, ORDERS\_DB, bank\_db, movie\_db, supplier, stud\_fac, and col. Below the menu is a toolbar with various icons. The main area displays a list of SQL queries:

```
67 (6,17,10);
68 • SELECT*FROM AUTHOR;
69 • SELECT*FROM category;
70 • SELECT*FROM Catalog;
71 • SELECT*FROM orders;
72 • SELECT*FROM publisher;
73
74 /*
75    iii) Give the details of the authors who have 2 or more books in the
76    catalog and the year of publication is after 2000.
77 */
```

Below the queries is a toolbar with options: Result Grid, Filter Rows: [input field], Edit: [icon], and Export/Import: [icons]. The result grid shows the following data:

	publisher_id	p_name	city	country
▶	1	PEARSON	NEW YORK	USA
	2	EEE	NEW SOUTH WALES	USA
	3	PHI	DELHI	INDIA
	4	WILEY	BERLIN	GERMANY
	5	MGH	NEW YORK	USA

**iii) 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.**

The screenshot shows a database management tool interface with multiple database tabs at the top: Insurance\_DB, ORDERS\_DB, bank\_db, movie\_db, supplier, stud\_fac, college\_db, and cie. The main editor area contains SQL code with line numbers 73 through 83. A comment block from line 74 to 77 describes the task for query iii. Line 78 contains the SQL query: `SELECT AUTHOR.author_id,a_name,city,country,price FROM AUTHOR,Catalog WHERE AUT`. Below this, another comment block from line 79 to 81 describes the task for query iv. Line 82 contains the SQL query: `SELECT AUTHOR.a_name FROM AUTHOR,Catalog,orders WHERE AUTHOR.author_id=Catalog.`. Line 83 is partially visible as `-- OF`. At the bottom, the 'Result Grid' tab is active, showing a table with 6 columns: author\_id, a\_name, city, country, and price. The first row of data shows author\_id 1005, a\_name WILLIAM STALLINGS, city LAS VEGAS, country USA, and price 326.

```

73
74  /*
75      iii) Give the details of the authors who have 2 or more books in the catalog an
76          catalog and the year of publication is after 2000.
77  */
78  • SELECT AUTHOR.author_id,a_name,city,country,price FROM AUTHOR,Catalog WHERE AUT
79  /*
80      iv) Find the author of the book which has maximum sales.
81  */
82  • SELECT AUTHOR.a_name FROM AUTHOR,Catalog,orders WHERE AUTHOR.author_id=Catalog.
83  -- OF

```

Result Grid

	author_id	a_name	city	country	price
▶	1005	WILLIAM STALLINGS	LAS VEGAS	USA	326

**iv.) Find the author of the book which has maximum sales.**

The screenshot shows a database management tool with multiple tabs: Insurance\_DB, ORDERS\_DB, bank\_db, movie\_db, supplier, stud\_fac, college\_db, and cie2. The cie2 tab is active. The SQL editor contains the following queries:

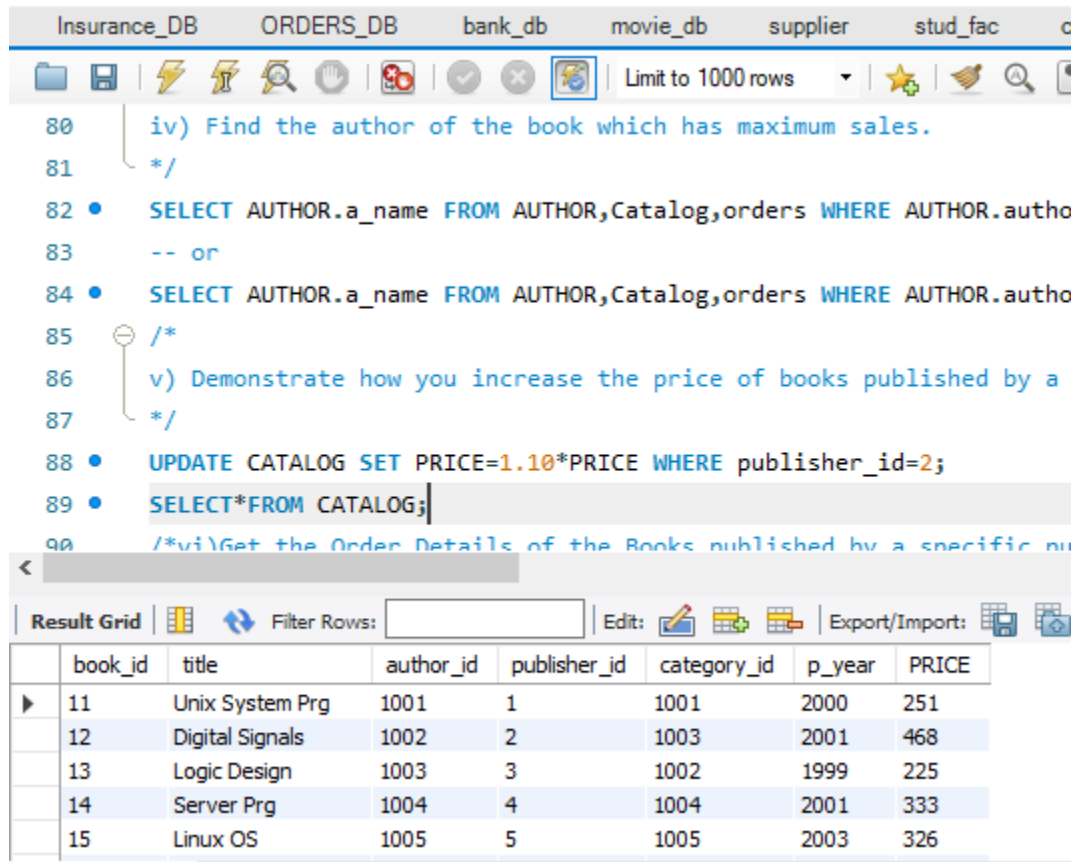
```
75      iii) Give the details of the authors who have 2 or more books in the catalog and the pr
76          catalog and the year of publication is after 2000.
77      */
78  •   SELECT AUTHOR.author_id,a_name,city,country,price FROM AUTHOR,Catalog WHERE AUTHOR.auth
79      /*
80      iv) Find the author of the book which has maximum sales.
81      */
82  •   SELECT AUTHOR.a_name FROM AUTHOR,Catalog,orders WHERE AUTHOR.author_id=Catalog.author_i
83      -- or
84  •   SELECT AUTHOR.a_name FROM AUTHOR,Catalog,orders WHERE AUTHOR.author_id=Catalog.author_i
85      /*
```

Below the SQL editor is a toolbar with icons for file operations, a 'Limit to 1000 rows' dropdown, and other utility icons. Below the toolbar is a 'Result Grid' section with a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The result grid displays the following data:

a_name
KARTHIK B.P.



**v) Demonstrate how you increase the price of books published by a specific publisher by 10%.**



The screenshot shows a database management interface with a toolbar at the top containing icons for file operations, search, and execution. Below the toolbar, a list of database connections is visible: Insurance\_DB, ORDERS\_DB, bank\_db, movie\_db, supplier, and stud\_fac. The main area displays a series of SQL queries with line numbers 80 through 90. The queries include comments and SQL statements for finding authors, updating book prices, and selecting book details. The bottom section of the interface shows a 'Result Grid' with a table of book data.

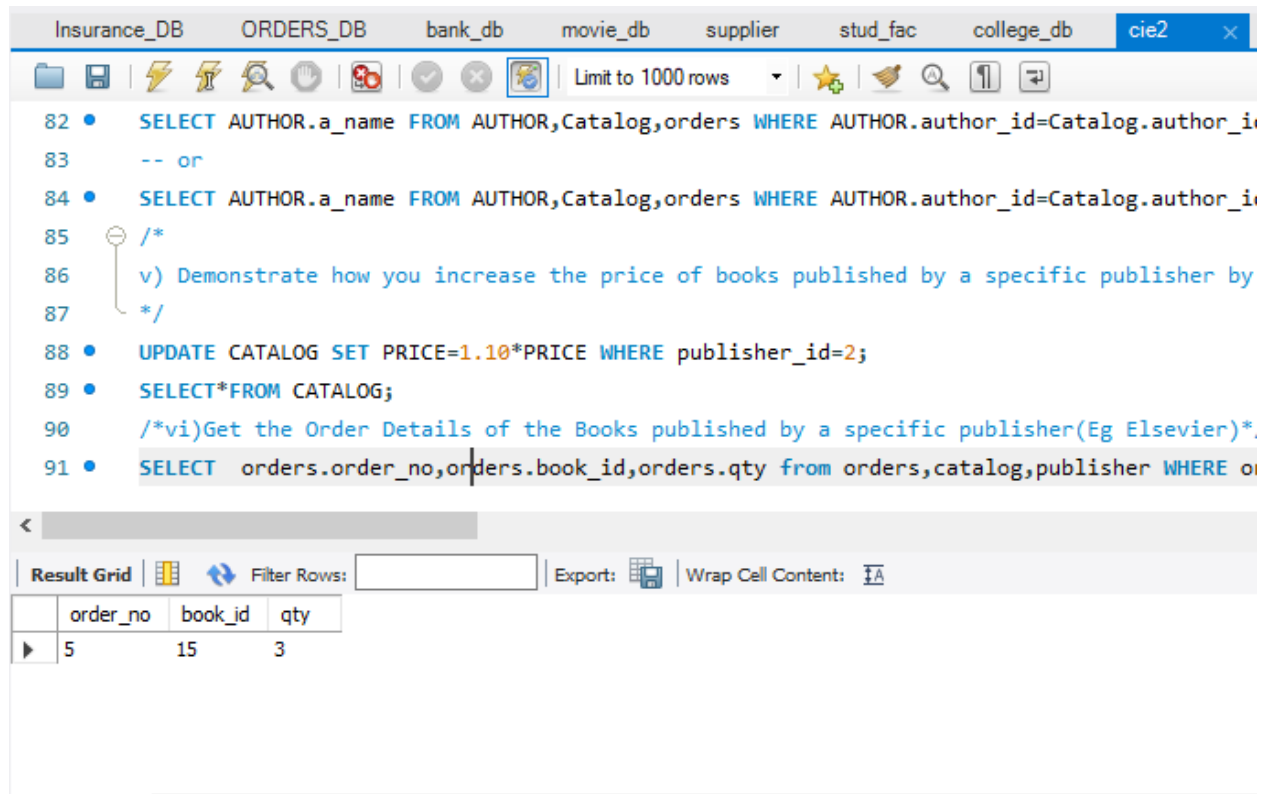
```

80  iv) Find the author of the book which has maximum sales.
81  */
82  •  SELECT AUTHOR.a_name FROM AUTHOR,Catalog,orders WHERE AUTHOR.autho
83  -- or
84  •  SELECT AUTHOR.a_name FROM AUTHOR,Catalog,orders WHERE AUTHOR.autho
85  /*
86  v) Demonstrate how you increase the price of books published by a
87  */
88  •  UPDATE CATALOG SET PRICE=1.10*PRICE WHERE publisher_id=2;
89  •  SELECT*FROM CATALOG;
90  /*vi)Get the Order Details of the Books published by a specific pu

```

	book_id	title	author_id	publisher_id	category_id	p_year	PRICE
▶	11	Unix System Prg	1001	1	1001	2000	251
	12	Digital Signals	1002	2	1003	2001	468
	13	Logic Design	1003	3	1002	1999	225
	14	Server Prg	1004	4	1004	2001	333
	15	Linux OS	1005	5	1005	2003	326

**vi)Get the Order Details of the Books published by a specific publisher(Eg Elsevier)**



The screenshot shows a database management tool interface with multiple tabs: Insurance\_DB, ORDERS\_DB, bank\_db, movie\_db, supplier, stud\_fac, college\_db, and cie2. The cie2 tab is active. The SQL editor contains the following queries:

```
82 • SELECT AUTHOR.a_name FROM AUTHOR,Catalog,orders WHERE AUTHOR.author_id=Catalog.author_i
83 -- or
84 • SELECT AUTHOR.a_name FROM AUTHOR,Catalog,orders WHERE AUTHOR.author_id=Catalog.author_i
85 /*
86 v) Demonstrate how you increase the price of books published by a specific publisher by
87 */
88 • UPDATE CATALOG SET PRICE=1.10*PRICE WHERE publisher_id=2;
89 • SELECT*FROM CATALOG;
90 /*vi)Get the Order Details of the Books published by a specific publisher(Eg Elsevier)*.
91 • SELECT orders.order_no,orders.book_id,orders.qty from orders,catalog,publisher WHERE or
```

Below the SQL editor, there is a "Result Grid" section. It includes a "Filter Rows:" input field, an "Export:" button, and a "Wrap Cell Content:" checkbox. The result grid displays the following data:

	order_no	book_id	qty
▶	5	15	3

\*\*\*\*\*CIE 2 REPORT ENDS\*\*\*\*\*