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Batch:A2

## DATABASE MANAGEMENT SYSTEM

### ASSIGNMENT NO. 3

Assignment 3 A Lab Questions (Any 10)

Perform following queries using SQL functions:

1. Find the cheapest book of SIBM library.

```
28 #Q3a-1)
29 • SELECT *
30 FROM Books
31 WHERE LibraryName = 'SIBM'
32 AND Price = (SELECT MIN(Price) FROM Books WHERE LibraryName = 'SIBM');
```

Result Grid

BookID	Title	Author	Price	LibraryName
6	Animal Farm	George Orwell	6.99	SIBM
NULL	NULL	NULL	NULL	NULL

2. Which library has the costliest book?

```
34 #Q3a-2)
35 • SELECT LibraryName
36 FROM Books
37 WHERE Price = (
38     SELECT MAX(Price)
39     FROM Books
40 );
```

Result Grid

LibraryName
National Library

3. How many students from VIT issued the book?

```
72      (10, 5, 5);
73
74 •   SELECT COUNT(DISTINCT StudentID) AS NumStudents
75      FROM Students
76      WHERE LibraryName = 'VIT';
```

< Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	NumStudents
▶	3

4. What is the average cost of books in VIT library?

```
81
82      #Q3a-4)
83 •   SELECT AVG(Books.Price) AS AverageCost
84      FROM IssuedBooks
85      JOIN Students ON IssuedBooks.StudentID = Students.StudentID
86      JOIN Books ON IssuedBooks.BookID = Books.BookID
87      WHERE Students.LibraryName = 'VIT';
88
```

< Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	AverageCost
▶	10.490000

5. What is the total cost of purchase made by VU in the month of January?

```
110 • SELECT SUM(Price) AS TotalCost
111 FROM Book
112 WHERE LibraryName = 'VU'
113 AND MONTH(PurchaseDate) = 1;
```

<

Result Grid | | Filter Rows:  | Export: | Wrap Cell Content:

	TotalCost
▶	57.45

6. How many books are written by “Shruti”

```
139 #Q3a-6)
140 • SELECT COUNT(*) AS NumBooksByShruti
141 FROM BooksInformation
142 WHERE Author = 'Shruti';
```

<

Result Grid | | Filter Rows:  | Export: | Wrap Cell Content:

	NumBooksByShruti
▶	4

7. What is the costliest book published by “Pragati Book Store”

```
144 #Q3a-7)
145 • SELECT MAX(Price) AS CostliestBookPrice
146 FROM BooksInformation
147 WHERE Publisher = 'Pragati Book Store';
148
```

<

Result Grid | | Filter Rows:  | Export: | Wrap Cell Content:

	CostliestBookPrice
▶	18.99

8. How many total copies of books do VIT has?

```
149 #Q3a-8)
150 • SELECT SUM(Copies) AS TotalCopiesAtVIT
151 FROM BooksInformation
152 WHERE SellerLocation = 'VIT';
153
```

Result Grid

TotalCopiesAtVIT
NULL

Result 10

9. What is the average cost of books written by “Mr. Kumar”?

```
154 #Q3a-9)
155 • SELECT AVG(Price) AS AvgCostOfMrKumarBooks
156 FROM BooksInformation
157 WHERE Author = 'Mr. Kumar';
158
```

Result Grid

AvgCostOfMrKumarBooks
11.740000

10. How many books are sold by seller living in Nagpur?

```
159 #Q3a-10)
160 • SELECT COUNT(*) AS NumBooksSoldInNagpur
161 FROM BooksInformation
162 WHERE SellerLocation = 'Nagpur';
163
```

Result Grid

NumBooksSoldInNagpur
6