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| G 10CS6212OPERATING SYSTEMS AND DATABASE MANAGEMENT SYSTEMS LAB |
| Lab Cycle II |
| 1. Query analysis using EXPLAIN in MySQL. Create a table student with following data. Perform below query and display results.   i. Select studentNo,studentName,cProgramming from student where studentNo =’101’.  ii. Use EXPLAIN statement to analyze your query.  iii. Based on the results, make a decision to add an index to the ‘studentNo'  iv. Run EXPLAIN statement to note down the changes   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | student | | | | | | | | | studentNo | studentName | maths | physics | chemistry | cProgramming | department | address | | 100 | Hari | 50 | 60 | 45 | 75 | CSE | Kasaragod | | 101 | Devi | 60 | 55 | 78 | 40 | CSE | Kasaragod | | 102 | Sam | 45 | 77 | 88 | 45 | IT | Kannur | | 103 | SreeHari | 90 | 75 | 77 | 60 | IT | Calicut | | 104 | Rani | 91 | 98 | 89 | 52 | ECE | Kannur | | 105 | Raj | 88 | 77 | 67 | 48 | CSE | Palakkad |  1. Create a table cust\_details with following data (TYPE=InnoDB). Perform InnoDB Transactions with following actions 2. ROLLBACK 3. COMMIT 4. AUTOCOMMIT  |  |  |  |  |  | | --- | --- | --- | --- | --- | | cust\_details | | | | | | acc\_no | acc\_type | name | address | balance | | 1001 | saving | sujith | kasaragod | 20000 | | 1002 | saving | sam | kannur | 30000 | | 1003 | current | sree | calicut | 40000 | | 2001 | loan | loan of sam | kannur | 0 | | 2002 | loan | loan of sujith | kasaragod | 0 | |

1. Using the XML Document below, with the URI “bib.xml” (library with books), define the following queries in XQuery:

a.) Give the titles of all Books sorted by Price.

b.) How many books were written by Abiteboul?

c.) Give for each author, the number of books he has written.

<?xml version="1.0"?>

<bib>

<book year="1994">

<title>TCP/IP Illustrated</title>

<author>Stevens</author>

<publisher>Addison-Wesley</publisher>

<price>65.95</price>

</book>

<book year="1994">

<title>Principles of Databases</title>

<author>Abiteboul</author>

<publisher>Addison-Wesley</publisher>

<price>35.89</price>

</book>

<book year="1992">

<title>Advanced Programming in the Unix environment</title>

<author>Stevens</author>

<publisher>Addison-Wesley</publisher>

<price>65.95</price> </book>

<book year="2000">

<title>Data on the Web</title>

<author>Abiteboul</author>

<author>Buneman</author>

<author>Suciu</author>

<publisher>Morgan Kaufmann Publishers</publisher>

<price> 39.95</price> </book>

<book year="1992">

<title>The Economics of Technology and Content for Digital TV</title>

<editor>

Gerbarg

<affiliation>CITI</affiliation>

</editor>

<publisher>Kluwer Academic Publishers</publisher>

<price>129.95</price>

</book>

</bib>