

DBMS \_LAB:27/09/2021

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RMCA\_S2:A

Rollno:42

1. Create the following relational schema for College Admission System

Applicants (regno, name, age, gender, Paper1, Paper2, Physics, Chemistry, Maths)

Note: Min Mark 0 and Max Mark 100 for all papers and subjects. age >18

If the (Paper1 AND Paper2) >= 10 AND Average (Physics, Chemistry, Maths) >50 then move that applicant to another table named 'qualified' with all details of applicant

Qualified applicants can take admission in one of the branch provided if seat available in that branch

Admission (Rollno, Regno(unique), Bname, AdmDate);

Note: Date of Admission = today

Branch (Bcode, Bname(unique), No of seats).

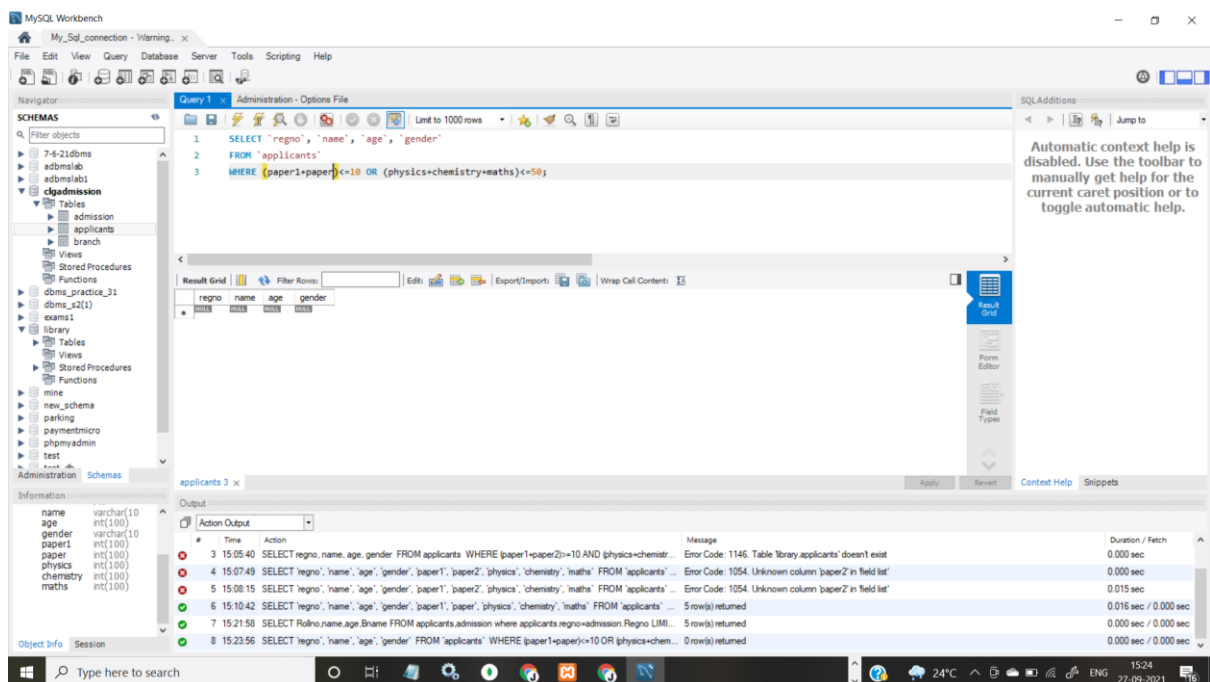
Insert Min 5 rows into each table. Include eligible and non eligible applicants.

Question (1A)

Develop a SQL query to prepare the Rank List of qualified applicants based on sum of all marks

(Paper1, Paper2, Physics, Chemistry, Maths)





2. Create a database for Library Management System in MongoDB and print the available books or search for books.

Library connection.php

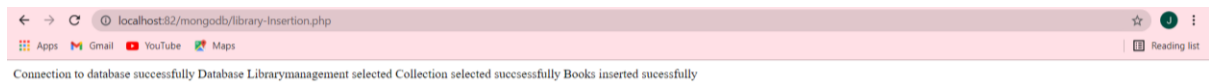
```
<?php

require 'vendor/autoload.php';

$m = new MongoDB\Client("mongodb://localhost:27017");
echo "\n Connection to database successfully \n";

$db = $m->Librarymanagement;
echo "\n Database Librarymanagement selected \n";

$collection = $db->library;
echo "\n Collection selected successfully \n";
?>
```



Library inserion.php

```
<?php
require 'vendor/autoload.php';

$m = new MongoDB\Client("mongodb://localhost:27017");
echo "\n Connection to database successfully \n";

$db = $m->Librarymanagement;
echo "\n Database Librarymanagement selected \n";

$collection = $db->library;
echo "\n Collection selected successfully \n";

$collection->insertMany([
    ["BookName"=>"Aadu jeevitham","Author"=>"Bennyaman","Publisher"=>"DC boo
ks thrissur"],
    ["BookName"=>"The Alchemist","Author"=>"Paulo Coelho","Publisher"=>"Har
perCollins"],
    ["BookName"=>"Neermathalam poothakalam","Author"=>" Madavikutty","Publi
sher"=>"Kerala Press"],
```

```

        ["BookName"=>"Meluhayilea Chirangeevikal","Author"=>"Amish tripathi","P
ublisher"=>"The Indian Book"],
        ["BookName"=>"Aarachar","Author"=>"K.R Meera","Publisher"=>"Dc books"],
        ["BookName"=>"Chidambara Smarana","Author"=>"Balachandran Chullickadu",
"Publisher"=>"DC books"],
        ["BookName"=>"Pathummayude Aadu","Author"=>"Vaikam Muhamathu Basheer","
Publisher"=>"DC books Kottayam"]
    ]);

    echo "Books inserted sucessfully";
?>

```

localhost:82/mongodbs/library-Selection.php

Book Name	Author	Publisher
The Alchemist	Paulo Coelho	HarperCollins
Aadu jeevitham	Benayaman	DC books thirissur
Neermathalam poothakalam	Madavikutty	Kerala Press
Meluhayilea Chirangeevikal	Amish tripathi	The Indian Book
Aarachar	K.R Meera	Dc books
Chidambara Smarana	Balachandran Chullickadu	DC books
Pathummayude Aadu	Vaikam Muhamathu Basheer	DC books Kottayam
Aadu jeevitham	Benayaman	DC books thirissur
The Alchemist	Paulo Coelho	HarperCollins
Neermathalam poothakalam	Madavikutty	Kerala Press
Meluhayilea Chirangeevikal	Amish tripathi	The Indian Book
Aarachar	K.R Meera	Dc books
Chidambara Smarana	Balachandran Chullickadu	DC books
Pathummayude Aadu	Vaikam Muhamathu Basheer	DC books Kottayam

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Library selction.php

```

<?php

require 'vendor/autoload.php';

$m = new MongoDB\Client("mongodb://localhost:27017");

echo "<table border='2'>";
echo "<tr>";
echo "<th>Book Name</th><th>Author</th><th>Publisher</th>";
echo "</tr>";

$db = $m->Librarymanagement;
$collection = $db->library;
$cursor = $collection->find();
foreach($cursor as $document)

```

```
{
    echo "<tr>";

    echo "<td>", $document['BookName']. "</td>";
    echo "<td>", $document['Author']. "</td>";
    echo "<td>", $document['Publisher']. "</td>";

    echo "</tr>";
}
```

Book Name	Author	Publisher
The Alchemist	Paulo Coelho	HarperCollins
Aadu jeevitham	Beniyaman	DC books thrissur
Neermathalam poothakalam	Madavikutty	Kerala Press
Meluhayilela Chirangeevikal	Anish tripathi	The Indian Book
Aarachar	K.R Meera	Dc books
Chidambara Smarana	Balachandran Chullikkadu	DC books
Pathummayude Aadu	Vaikam Muhamathu Basheer	DC books Kottayam
Aadu jeevitham	Beniyaman	DC books thrissur
The Alchemist	Paulo Coelho	HarperCollins
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Meluhayilela Chirangeevikal	Anish tripathi	The Indian Book
Aarachar	K.R Meera	Dc books
Chidambara Smarana	Balachandran Chullikkadu	DC books
Pathummayude Aadu	Vaikam Muhamathu Basheer	DC books Kottayam

MongoDB Compass - 127.0.0.1:27017/Librarymanagement.library

Connect View Collection Help

Local Librarymanagement.library Documents

Librarymanagement.library

DOCUMENTS 14 TOTAL SIZE 1.5KB AVG. SIZE 111B INDEXES 1 TOTAL SIZE 36.0KB AVG. SIZE 36.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

Filter { field: 'value' } OPTIONS FIND RESET

ADD DATA VIEW

Displaying documents 1 - 7 of 7 REFRESH

<pre>{   "_id": ObjectId("615197f4408000009b005523"),   "BookName": "The Alchemist",   "Author": "Paulo Coelho",   "Publisher": "HarperCollins" }</pre>
<pre>{   "_id": ObjectId("61519b06408000009b005529"),   "BookName": "Aadu Jeevitnam",   "Author": "Bennyman",   "Publisher": "DC books thrissur" }</pre>
<pre>{   "_id": ObjectId("61519b06408000009b00552b"),   "BookName": "Neermathalam poothakalam",   "Author": "Madavikutty",   "Publisher": "Kerala Press" }</pre>
<pre>{   "_id": ObjectId("61519b06408000009b00552c"),   "BookName": "Meluhayile Chirangevikal",   "Author": "Amish tripathi",   "Publisher": "The Indian Book" }</pre>
<pre>{   "_id": ObjectId("61519b06408000009b00552d"),   "BookName": "Kazhachan",   "Author": "K.R Meena",   "Publisher": "DC books" }</pre>

>\_MONGOSH

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