

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2023

CMSADSE04P-COMPUTER SCIENCE (DSE3/4) BIG DATA LAB (PRACTICAL) NoSQL Queries – using MongoDB

SET-II

Time Allotted: 2 Hours

Full Marks: 10

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

Answer any one question from the following

- Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.
 - Course contains a collection "Subjects" which contains documents with the following fields:
 - (i) sub code
 - (ii) sub title
 - (iii) credit
 - (iv) type
 - (v) assessments (assess_Num,weight,assess_Type,description)
 - (vi) books(book_Type,book_Title,edition, year_of_Pub,publisher,author)

A subject may have a number of assessments (internal, assignments, practical, semester etc.) and a number of books(text, reference etc.)

Oueries:

- (a) Insert at least 4 documents in "Subjects" collection using GUI.
- (b) Display all the documents of the collection in a formatted manner.
- (c) Find the total number of subjects.
- 2. Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub_code
- (ii) sub title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num, weight, assess_Type, description)
- (vi) books(book Type,book Title,edition, year of Pub,publisher,author)

A subject may have a number of assessments (internal, assignments, practical, semester etc.) and a number of books(text, reference etc.)

Queries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) Find the total number of subjects that worth more than 3 credit.

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3. Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub_code
- (ii) sub_title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num,weight,assess_Type,description)
- (vi) books(book_Type,book_Title,edition, year_of_Pub,publisher,author)

A subject may have a number of assessments (internal, assignments, practical, semester etc.) and a number of books(text, reference etc.)

Queries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) Find subject code, subject title, subject type having credit value 4.
- 4. Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub code
- (ii) sub_title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num,weight,assess_Type,description)
- (vi) books(book Type,book Title,edition, year of Pub,publisher,author)

A subject may have a number of assessments (internal, assignments, practical, semester etc.) and a number of books(text, reference etc.)

Queries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) Find subject title, subject type having highest credit value.
- 5. Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub_code
- (ii) sub_title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num,weight,assess_Type,description)
- (vi) books(book_Type,book_Title,edition, year_of_Pub,publisher,author)

A subject may have a number of assessments (internal, assignments, practical, semester etc.) and a number of books(text, reference etc.)

Queries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) Find title, author, type of books used for the subjec code CMSACOR13T.

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Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub code
- (ii) sub title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num,weight,assess_Type,description)
- (vi) books(book_Type,book_Title,edition, year_of_Pub,publisher,author)

A subject may have a number of assessments (internal, assignments, practical, semester etc.) and a number of books(text, reference etc.)

Queries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) For each subject type, list the name of subjects and the total number of subjects belonging to the subject type.
- Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub code
- (ii) sub_title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num,weight,assess_Type,description)
- (vi) books(book_Type,book_Title,edition, year_of_Pub,publisher,author)

A subject may have a number of assessments (internal,assignments,practical,semester etc.) and a number of books(text,reference etc.)

Oueries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) Find books which are published in 2019.
- 8. Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub_code
- (ii) sub_title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num,weight,assess_Type,description)
- (vi) books(book_Type,book_Title,edition, year_of_Pub,publisher,author)

A subject may have a number of assessments (internal,assignments,practical,semester etc.) and a number of books(text,reference etc.)

Oueries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) For each subject, find the total number of books.

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 Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub code
- (ii) sub_title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num, weight, assess Type, description)
- (vi) books(book_Type,book_Title,edition, year_of_Pub,publisher,author)

A subject may have a number of assessments (internal, assignments, practical, semester etc.) and a number of books(text, reference etc.)

Queries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) Display subjects for which number of assessments is 5.
- Create a database "Course" which contains information about subjects together with their assessments and text books of UG Hons. Courses of West Bengal State University.

Course contains a collection "Subjects" which contains documents with the following fields:

- (i) sub code
- (ii) sub title
- (iii) credit
- (iv) type
- (v) assessments (assess_Num,weight,assess_Type,description)
- (vi) books(book_Type,book_Title,edition, year_of_Pub,publisher,author)

A subject may have a number of assessments (internal, assignments, practical, semester etc.) and a number of books(text, reference etc.)

Queries:

- (a) Insert at least 4 documents in "Subjects" collection.
- (b) Display all the documents of the collection in a formatted manner.
- (c) Find Assessment Number, Assessment Type and Assessment Description for which weight is 10.

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