Report for Advanced Databases Project

ITI, SD, Intake 43

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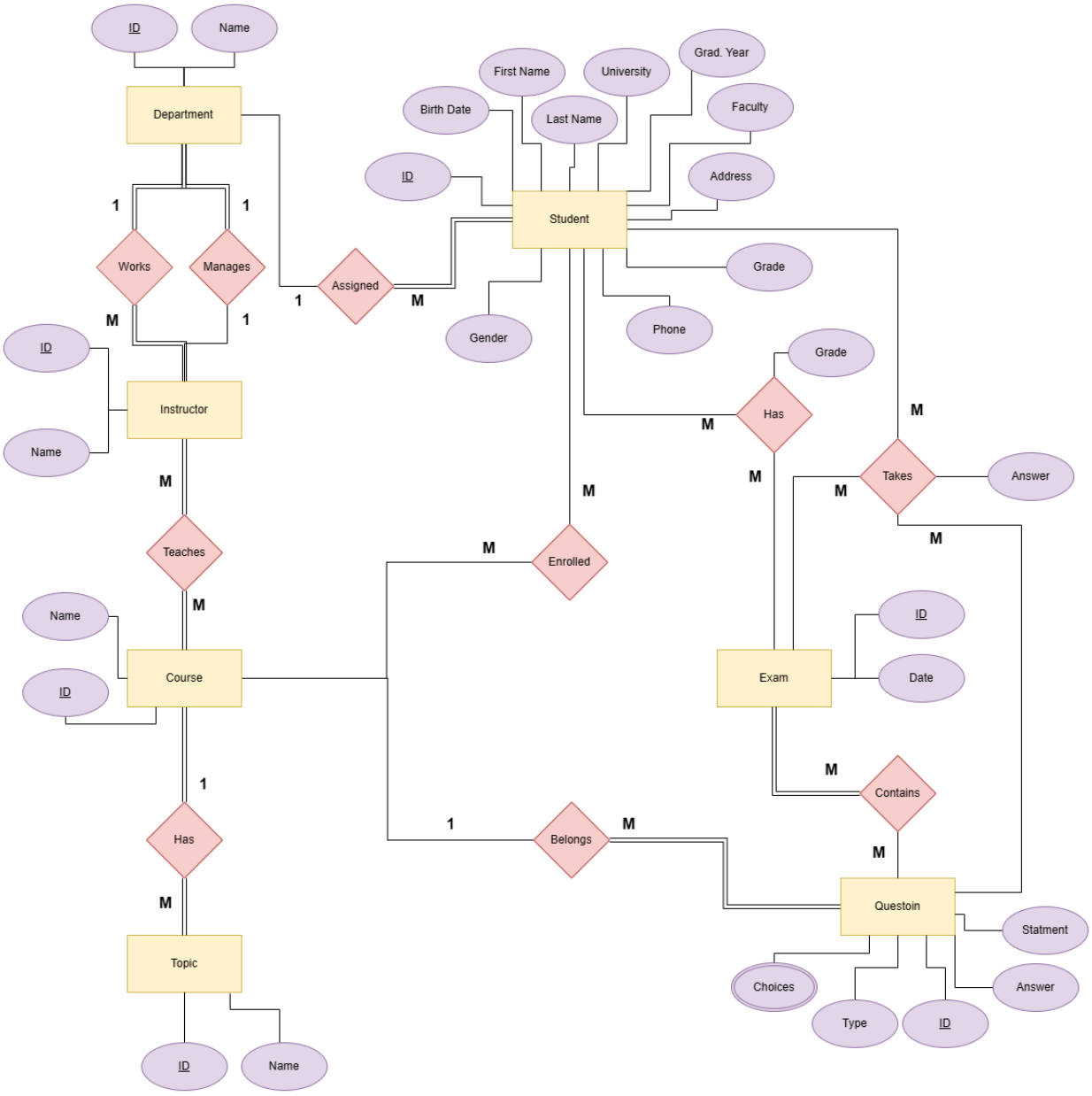
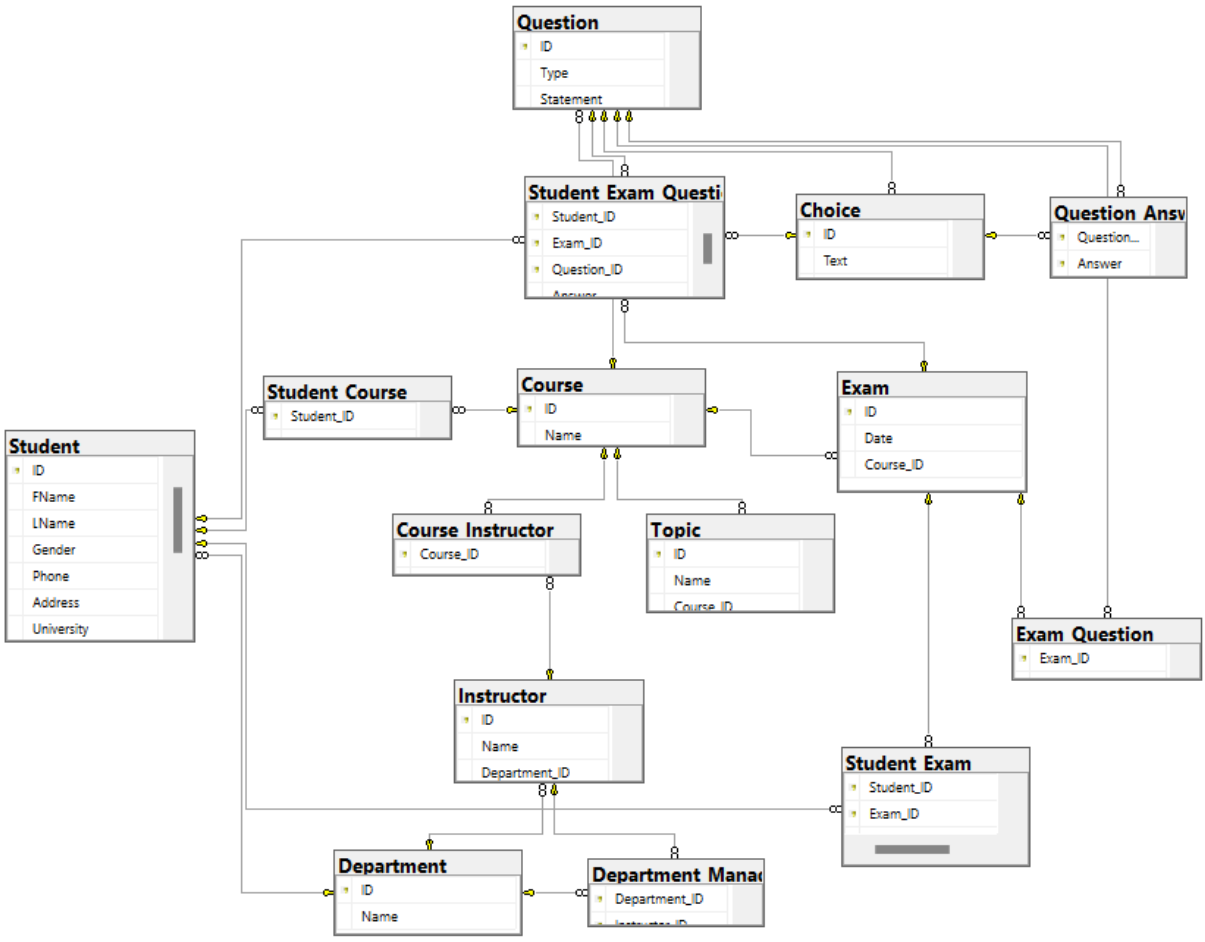
1. GitHub Repository

https://github.com/anazhmetdin/ITI_Exams_DB

2. ERD



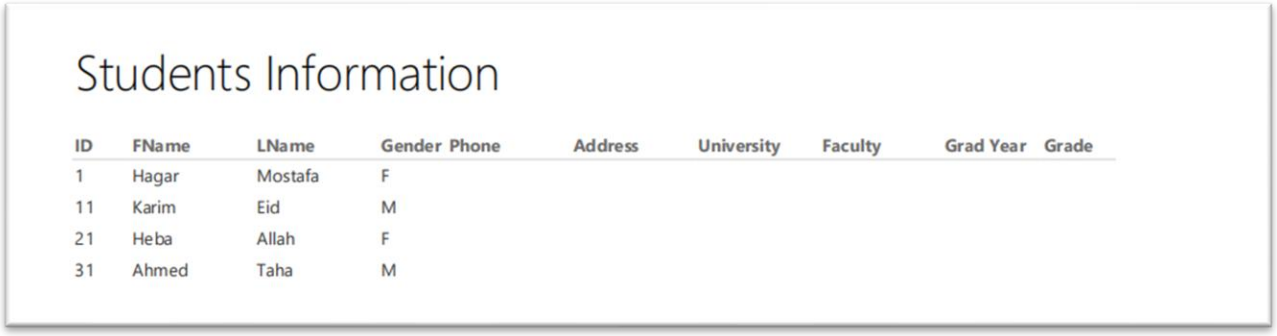
1. DB Diagram


Question
ID
Type
Statement
Student Exam Questi
Student_ID
Exam_ID
Question_ID
Choice
ID
Text
Question Ansv
Question...
Answer
Student Course
Student_ID
Course
ID
Name
Exam
ID
Date
Course_ID
Student
ID
FName
LName
Gender
Phone
Address
University
Course Instructor
Course_ID
Topic
ID
Name
Course_ID
Exam Question
Exam_ID
Instructor
ID
Name
Department_ID
Student Exam
Student_ID
Exam_ID
Department
ID
Name
Department Manac
Department_ID

2. Reports

All reports are generated by MS Report Builder

a. First Report: Students Information by Department ID

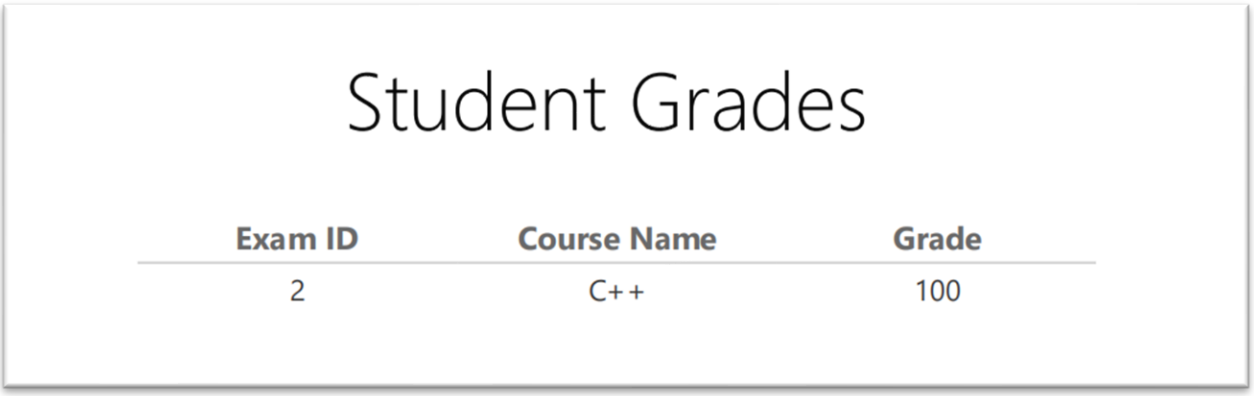


Students Information

ID	FName	LName	Gender	Phone	Address	University	Faculty	Grad Year	Grade
1	Hagar	Mostafa	F						
11	Karim	Eid	M						
21	Heba	Allah	F						
31	Ahmed	Taha	M						

The corresponding stored procedure: Std_Info_Dep

b. Second Report: Student Grades by Student ID

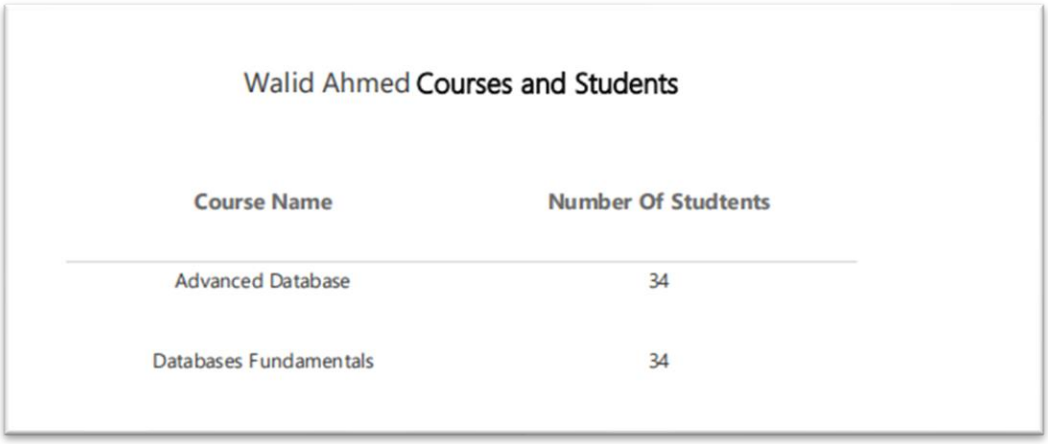


Student Grades

Exam ID	Course Name	Grade
2	C++	100

The corresponding stored procedure: stdGrades

c. Third Report: Current Courses and Number of Registered Students by Instructor ID

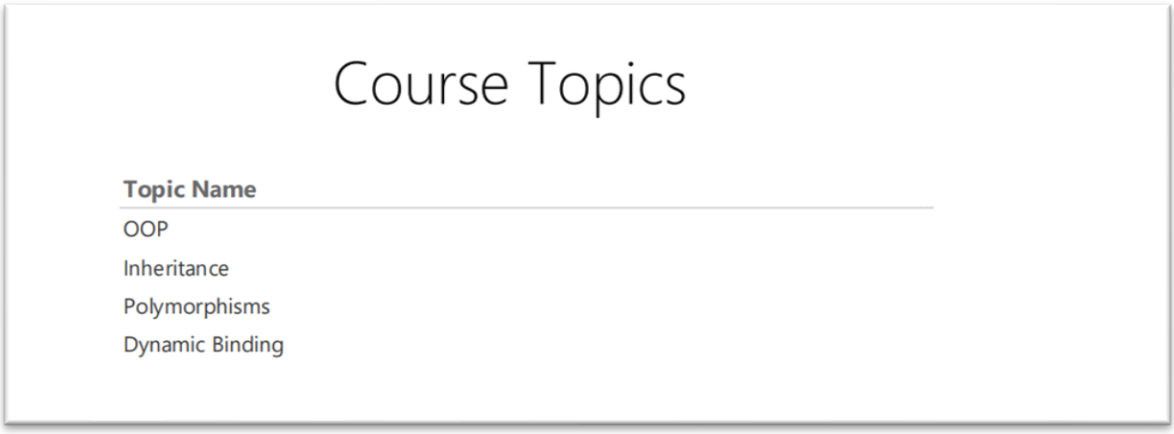


Walid Ahmed **Courses and Students**

Course Name	Number Of Studtents
Advanced Database	34
Databases Fundamentals	34

The corresponding stored procedure: ReturnInstructorCourseStudents

d. Fourth Report: Course Topics by Course ID

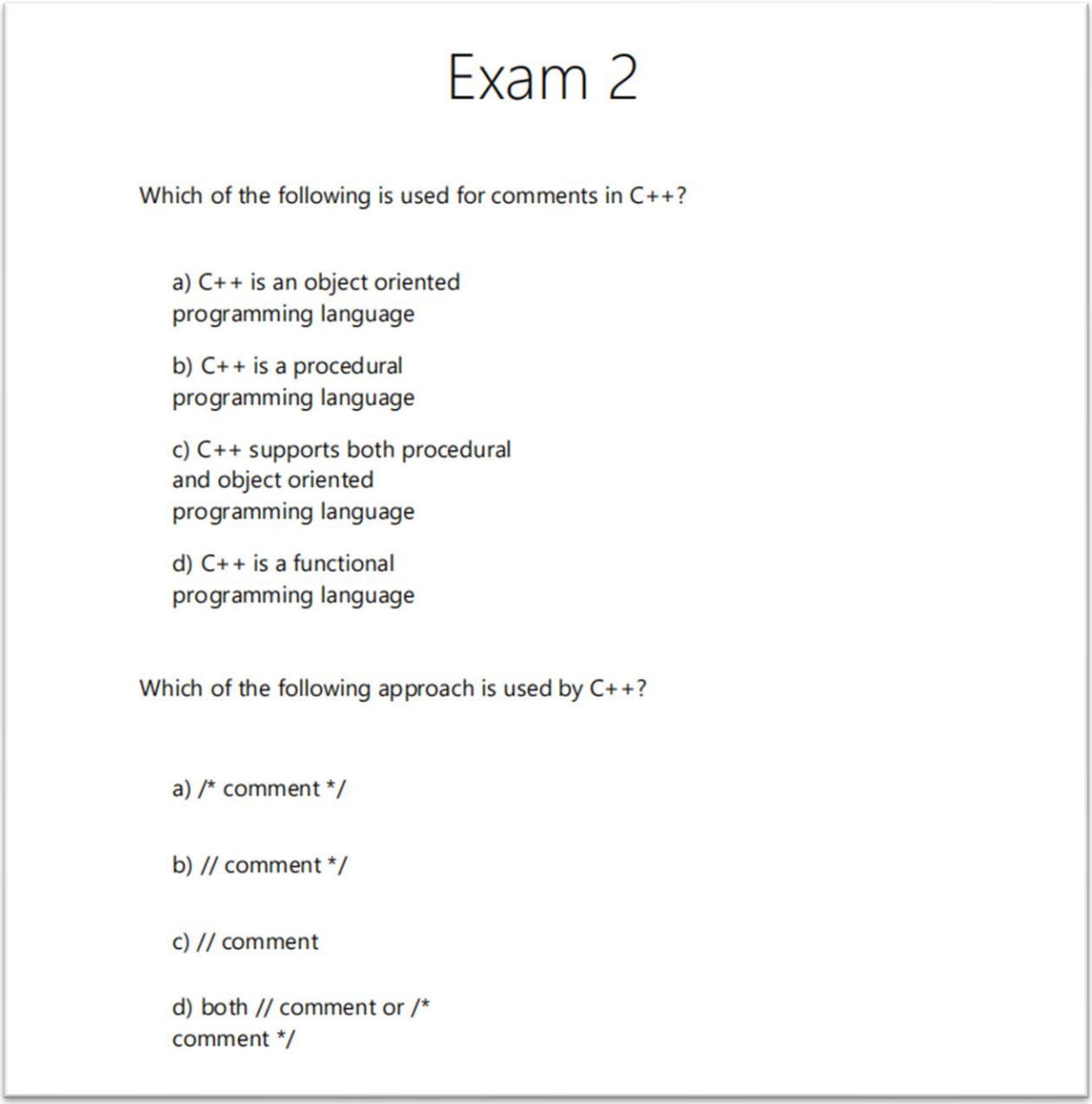


Course Topics

Topic Name
OOP
Inheritance
Polymorphisms
Dynamic Binding

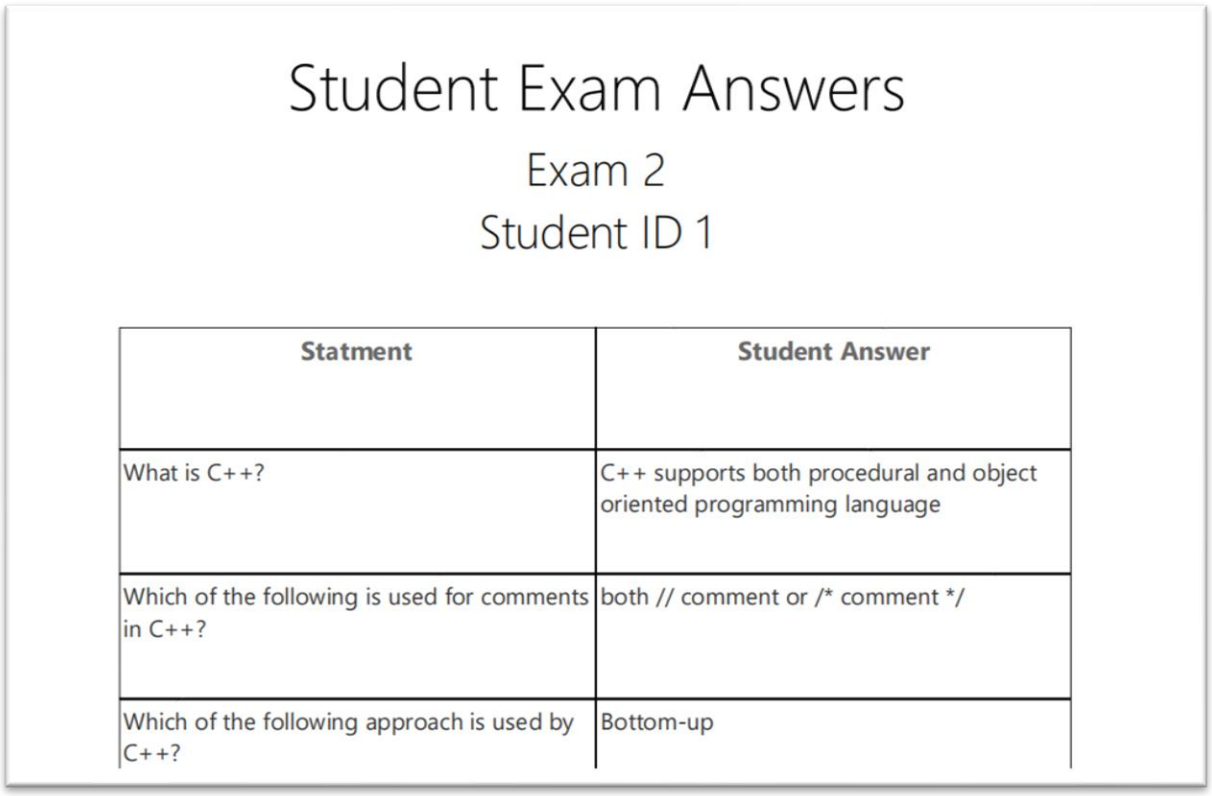
The corresponding stored procedure: GetCourseTopics

e. Fifth Report: Display Exam by Exam ID



The corresponding stored procedure: exam_ques_choices

f. Sixth Report: Student Answers by Exam ID and Student ID



Student Exam Answers

Exam 2

Student ID 1

Statment	Student Answer
What is C++?	C++ supports both procedural and object oriented programming language
Which of the following is used for comments in C++?	both // comment or /* comment */
Which of the following approach is used by C++?	Bottom-up

The corresponding stored procedure: Report6

3. Stored Procedures

Proc ID	Procedure Name	Param ID	Parameter Name	Param Data type	Param Size in Bytes	Is Param Out
1	CorrectExam	1	@eid	int	4	False
	CorrectExam	2	@sid	int	4	False
2	DeleteAnswer	1	@qid	int	4	False
	DeleteAnswer	2	@force	bit	1	False
3	DeleteChoices	1	@qid	int	4	False
	DeleteChoices	2	@force	bit	1	False
4	DeleteCourse	1	@id	int	4	False
	DeleteCourse	2	@cName	varchar	30	False
5	DeleteCourseInstructor	1	@cID	int	4	False
	DeleteCourseInstructor	2	@insID	int	4	False
6	DeleteDepartment	1	@id	int	4	False
	DeleteDepartment	2	@name	varchar	32	False
	DeleteDepartment	3	@all	bit	1	False
7	DeleteDeptMngr	1	@MngrID	int	4	False
	DeleteDeptMngr	2	@DeptID	int	4	False
8	DeleteExam	1	@id	int	4	False
	DeleteExam	2	@date	date	3	False
	DeleteExam	3	@all	bit	1	False
9	DeleteExamQ	1	@QID	int	4	False
	DeleteExamQ	2	@ExamID	int	4	False
10	DeleteQuestion	1	@qid	int	4	False
	DeleteQuestion	2	@force	bit	1	False
11	DeleteStdCourse	1	@StdID	int	4	False
	DeleteStdCourse	2	@CrsID	int	4	False
12	DeleteStudentExam	1	@id	int	4	False
	DeleteStudentExam	2	@name	varchar	32	False
	DeleteStudentExam	3	@all	bit	1	False
13	DeleteStudentExamQuestionAnswer	1	@studentID	int	4	False
	DeleteStudentExamQuestionAnswer	2	@examID	int	4	False
	DeleteStudentExamQuestionAnswer	3	@questionID	int	4	False
	DeleteStudentExamQuestionAnswer	4	@answer	int	4	False
	DeleteStudentExamQuestionAnswer	5	@all	bit	1	False
14	DeleteTopic	1	@id	int	4	False
	DeleteTopic	2	@tName	varchar	30	False
15	exam_ques_choices	1	@exam_id	int	4	False
16	ExamAnswer	1	@eID	int	4	False
	ExamAnswer	2	@sID	int	4	False
	ExamAnswer	3	@c1	int	4	False
	ExamAnswer	4	@c2	int	4	False
	ExamAnswer	5	@c3	int	4	False
	ExamAnswer	6	@c4	int	4	False
	ExamAnswer	7	@c5	int	4	False

	ExamAnswer	8	@c6	int	4	False
	ExamAnswer	9	@c7	int	4	False
	ExamAnswer	10	@c8	int	4	False
	ExamAnswer	11	@c9	int	4	False
	ExamAnswer	12	@c10	int	4	False
17	GenerateExam	1	@courseName	varchar	128	False
	GenerateExam	2	@MCQCount	int	4	False
	GenerateExam	3	@MTFCount	int	4	False
	GenerateExam	4	@exam_ID	int	4	True
	GenerateExam	5	@date	date	3	False
18	GetCourseTopics	1	@cid	int	4	False
19	InsertChoice	1	@qid	int	4	False
	InsertChoice	2	@c	varchar	5000	False
	InsertCourse	1	@cName	varchar	16	False
	InsertCourse	2	@id	int	4	True
20	InsertCourseInstructor	1	@cID	int	4	False
	InsertCourseInstructor	2	@insID	int	4	False
21	InsertDepartment	1	@id	int	4	False
	InsertDepartment	2	@name	varchar	32	False
22	InsertDeptMngr	1	@MngrID	int	4	False
	InsertDeptMngr	2	@DeptID	int	4	False
23	InsertExam	1	@date	date	3	False
	InsertExam	2	@id	int	4	True
	InsertExam	3	@courseId	int	4	False
24	InsertExamAnswerChoice	1	@eID	int	4	False
	InsertExamAnswerChoice	2	@sID	int	4	False
	InsertExamAnswerChoice	3	@ch	int	4	False
25	InsertExamQ	1	@QID	int	4	False
	InsertExamQ	2	@ExamID	int	4	False
26	InsertInstructor	1	@id	int	4	False
	InsertInstructor	2	@name	varchar	32	False
	InsertInstructor	3	@dep_id	int	4	False
27	InsertQuestion	1	@type	varchar	3	False
	InsertQuestion	2	@statment	varchar	-1	False
	InsertQuestion	3	@cid	int	4	False
	InsertQuestion	4	@id	int	4	True
28	InsertQuestionAnswer	1	@qid	int	4	False
	InsertQuestionAnswer	2	@aid	int	4	False
29	InsertQuestionWithChoices	1	@type	varchar	3	False
	InsertQuestionWithChoices	2	@statment	varchar	-1	False
	InsertQuestionWithChoices	3	@cid	int	4	False
	InsertQuestionWithChoices	4	@answer	int	4	False
	InsertQuestionWithChoices	5	@c1	varchar	5000	False
	InsertQuestionWithChoices	6	@c2	varchar	5000	False
	InsertQuestionWithChoices	7	@c3	varchar	5000	False
	InsertQuestionWithChoices	8	@c4	varchar	5000	False
30	InsertStdCourse	1	@StdID	int	4	False
	InsertStdCourse	2	@CrsID	int	4	False

31	InsertStudent	1	@studentID	int	4	False
	InsertStudent	2	@fname	varchar	16	False
	InsertStudent	3	@lname	varchar	16	False
	InsertStudent	4	@gender	varchar	1	False
	InsertStudent	5	@phone	varchar	13	False
	InsertStudent	6	@address	varchar	256	False
	InsertStudent	7	@university	varchar	128	False
	InsertStudent	8	@faculty	varchar	128	False
	InsertStudent	9	@gradyear	int	4	False
	InsertStudent	10	@grade	varchar	2	False
	InsertStudent	11	@dep_id	int	4	False
31	InsertStudentExam	1	@studentID	int	4	False
	InsertStudentExam	2	@examID	int	4	False
	InsertStudentExam	3	@Grade	float	8	False
32	InsertStudentExamQuestionAnswer	1	@studentID	int	4	False
	InsertStudentExamQuestionAnswer	2	@examID	int	4	False
	InsertStudentExamQuestionAnswer	3	@questionID	int	4	False
	InsertStudentExamQuestionAnswer	4	@answer	int	4	False
33	InsertTopic	1	@tName	varchar	16	False
	InsertTopic	2	@id	int	4	True
34	Report6	1	@stdID	int	4	False
	Report6	2	@examID	int	4	False
35	ReturnInstructorCourseStudents	1	@insID	int	4	False
36	SelectChoices	1	@qid	int	4	False
	SelectCourse	1	@id	int	4	False
	SelectCourse	2	@cName	varchar	30	False
37	SelectCourseInstructor	1	@cID	int	4	False
	SelectCourseInstructor	2	@insID	int	4	False
38	SelectDepartment	1	@id	int	4	False
	SelectDepartment	2	@name	varchar	32	False
39	SelectDeptMngr	1	@MngrID	int	4	False
	SelectDeptMngr	2	@DeptID	int	4	False
40	SelectExam	1	@id	int	4	False
	SelectExam	2	@dateStart	date	3	False
	SelectExam	3	@dateEnd	date	3	False
41	SelectInstructor	1	@id	int	4	False
	SelectInstructor	2	@name	varchar	32	False
	SelectInstructor	3	@dep_id	int	4	False
42	SelectQuestionAnswer	1	@qid	int	4	False
43	SelectStdCourses	1	@StdID	int	4	False
	SelectStdCourses	2	@CrsID	int	4	False
44	SelectStudent	1	@studentID	int	4	False
	SelectStudent	2	@fname	varchar	16	False
	SelectStudent	3	@lname	varchar	16	False
	SelectStudent	4	@gender	varchar	1	False
	SelectStudent	5	@phone	varchar	13	False
	SelectStudent	6	@address	varchar	256	False
	SelectStudent	7	@university	varchar	128	False

	SelectStudent	8	@faculty	varchar	128	False
	SelectStudent	9	@gradyear	int	4	False
	SelectStudent	10	@grade	varchar	2	False
	SelectStudent	11	@dep_id	int	4	False
45	SelectStudentExam	1	@studentID	int	4	False
	SelectStudentExam	2	@examID	int	4	False
	SelectStudentExam	3	@minGrade	float	8	False
	SelectStudentExam	4	@maxGrade	float	8	False
46	SelectStudentExamQuestionAnswer	1	@studentID	int	4	False
	SelectStudentExamQuestionAnswer	2	@examID	int	4	False
	SelectStudentExamQuestionAnswer	3	@questionID	int	4	False
	SelectStudentExamQuestionAnswer	4	@answer	int	4	False
47	SelectTopic	1	@id	int	4	False
	SelectTopic	2	@tName	varchar	30	False
48	stdGrades	1	@StdID	int	4	False
49	UpdateChoice	1	@cid	int	4	False
	UpdateChoice	2	@text	varchar	5000	False
	UpdateCourse	1	@id	int	4	False
	UpdateCourse	2	@oldName	varchar	30	False
	UpdateCourse	3	@newName	varchar	30	False
50	UpdateCourseInstructor	1	@insID	int	4	False
	UpdateCourseInstructor	2	@cID	int	4	False
51	UpdateDepartment	1	@id	int	4	False
	UpdateDepartment	2	@name	varchar	32	False
	UpdateDepartment	3	@all	bit	1	False
52	UpdateDeptMngr	1	@MngrID	int	4	False
	UpdateDeptMngr	2	@DeptID	int	4	False
	UpdateDeptMngr	3	@all	bit	1	False
53	UpdateExam	1	@id	int	4	False
	UpdateExam	2	@date	date	3	False
	UpdateExam	3	@all	bit	1	False
54	UpdateInstuctor	1	@id	int	4	False
	UpdateInstuctor	2	@name	varchar	32	False
	UpdateInstuctor	3	@dep_id	int	4	False
	UpdateInstuctor	4	@all	bit	1	False
	UpdateQuestion	1	@qid	int	4	False
	UpdateQuestion	2	@statment	varchar	-1	False
	UpdateQuestion	3	@cid	int	4	False
55	UpdateQuestionAnswer	1	@qid	int	4	False
	UpdateQuestionAnswer	2	@ans	int	4	False
56	UpdateStudentExam	1	@studentID	int	4	False
	UpdateStudentExam	2	@examID	int	4	False
	UpdateStudentExam	3	@minGrade	float	8	False
	UpdateStudentExam	4	@maxGrade	float	8	False
	UpdateStudentExam	5	@Grade	float	8	False
	UpdateStudentExam	6	@all	bit	1	False
57	UpdateStudentExamQuestionAnswer	1	@studentID	int	4	False
	UpdateStudentExamQuestionAnswer	2	@examID	int	4	False

	UpdateStudentExamQuestionAnswer	3	@questionID	int	4	False
	UpdateStudentExamQuestionAnswer	4	@answer	int	4	False
	UpdateStudentExamQuestionAnswer	5	@all	bit	1	False
58	UpdateTopic	1	@id	int	4	False
	UpdateTopic	2	@oldName	varchar	30	False