PRACTICAL EXAMINATION

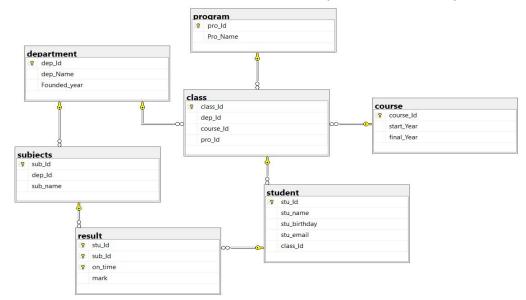
Subject code: DBI202 – Summer 2023
Duration: 90 minutes

Requirements:

- + Write the code on 1 file, named the file using your student ID: studentName_code.sql
- + The **Student management** project was surveyed and physically installed the database with the name: **DBI202_SU23_PE**. The database is backed up to **DBI202_SU23_PE**.bacpac, let's import this file into the **Microsoft SQL Server environment**.

A. Students read the survey and analyze the project to understand the informations:

- Each department has a department code to manage, a department name, and the year was founded.
- Each course has a code to manage, the start year, and the final year of the course
- Each course program has a management code and a program name (formal and informal)
- A class has a class code to manage, belongs to a department, and is open to a course, with a program
- Each student has a code to manage and belongs to a certain class (identified by class_Id)
- Each subject has a code to manage and belongs to a department (identified by dep_Id)
- The result is the score of the student who took the test for a subject (1 student: 1 subject / one time_luot thi)



B. Let's import DBI202_SU23_PE.bacpac file to SQL Server Database and write SQL queries to make requests:

1) Let's add data for the tables (2 mark)

Example.

Table class

class_Id	dep_Id	course_Id	pro_Id
SE15C01	IT	CSE15	FE
Al15B01	IT	CAI15	FE
MK17A01	MK	CMK17	FE
BIZ17B01	BIZ	CBIZ17	FE

PRACTICAL EXAMINATION_DBI202_SU23

Table student

stu_Id	stu_name	stu_birthday	stu_email	class_Id
SE150023	Nguyễn Quốc Khang	2001-10-15	khangnq@fpt.edu.vn	SE15C01
SE150040	Lê Quang Minh Đà	2000-01-01	dalqm@fpt.edu.vn	SE15C01
Al152541	Lê Võ Bảo Duy	2002-05-20	duylvb@fpt.edu.vn	AI15B01
Al152007	Võ Hoàng Nguyên	2001-01-31	nguyenvh@fpt.edu.vn	AI15B01
MK175489	Trương Việt Hoàng	2001-02-23	hoangtv@fpt.edu.vn	MK17A01
MK175694	Phan Thị Minh Phương	2000-05-05	phuongptm@fpt.edu.vn	MK17A01
BIZ179420	Thân Đức Quang Vinh	2000-07-26	vinhtdq@fpt.edu.vn	BIZ17B01
BIZ175642	Lương Gia Khánh	2001-06-27	khanhlg@fpt.edu.vn	BIZ17B01

Table subjects

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sub_Id	sub_name	dep_Id	
DBI202	Database Systems_Các hệ cơ sở dữ liệu	IT	
PRF192	Programming Fundamentals_Cơ sở lập trình	IT	
ECO111	Microeconomics_Kinh tế vi mô	MK	
MKT101	Marketing Principles_Nguyên lý Marketing	MK	
OBE102c	Organizational Behavior_Hành vi tổ chức	BIZ	
CHN111	Elementary Chinese 1_Hán ngữ sơ cấp 1	BIZ	

Table result

stu_Id	sub_Id	on_time	mark	
SE150023	DBI202	1	9	
SE150040	DBI202	1	6.5	
Al152541	DBI202	1	8	
AI152007	DBI202	1	7	
MK175489	ECO111	1	8	
MK175694	MKT101	1	9	
BIZ179420	OBE102c	2	9	
BIZ175642	CHN111	1	8	
SE150023	PRF192	2	7.5	
BIZ179420	CHN111	1	8	

2) Make the following queries:(8 mark)

- a) Display a list of students from the department: Công nghệ thông tin (1 mark)
- b) Display class score information: MK17A01 (1 mark)

- c) Indicates course information starting in 2021. (1 mark)
 Required information: class code, class name, and department name
- d) Find the students with the highest mark and take the exam on the 1st (on_time = 1) (1.5 mark)

 Display information: student ID, student name, date of birth
- e) Please indicate the number of students in each department, and sort them in descending order by number of students (1.5 mark)
- f) Using stored procedure to print a list of students in a class (2 mark)
- Must have class code
- Find all students by class code

	The end	
Attention: Students hav	e access to electronic documents stored on their personal computers, which are us	sec
to take the PE.		