 DUY TÂN UNIVERSITY International School SE-MIS Program	Final Exam No. 1 CMU-IS 401. Information System Applications Academic year: 2022-2023	
	Class: Duration: 90 minutes Date:	
Score	Student Name:..... Student ID:.....	
Examiner (Giám khảo) Signature:		Supervisor (Giám thị) Signature:
		Code: 1B

Instructions: please read before you start solving the questions:

1. Please SWITCH OFF your MOBILE/ ELECTRONIC DEVICE.
2. This is a closed-book and closed-notes exam.

Good luck ☺

I. Part 1 (0.2 point each): MULTIPLE CHOICE QUESTIONS

Answer Sheet

Note: ○ : Chosen answer: ⊗ : cancelled answer

1	A	B	C	D	6	A	B	C	D	11	A	B	C	D
2	A	B	C	D	7	A	B	C	D	12	A	B	C	D
3	A	B	C	D	8	A	B	C	D	13	A	B	C	D
4	A	B	C	D	9	A	B	C	D	14	A	B	C	D
5	A	B	C	D	10	A	B	C	D	15	A	B	C	D

1. (0.200 Point)

ROLLBACK in a database is a ____ statement.

- DDL
- DML
- DCL
- TCL

2. (0.200 Point)

Which the SQL statement you should use to retrieve data from a database table?

- Insert
- Update
- Delete
- Select

3. (0.200 Point)

What will be returned when the following SQL statement is executed? Select driver_no, count(*) as num_deliveries From DELIVERIES Where state = 'MA' Group by driver_no

- A listing of all drivers who made deliveries to state = 'MA', sorted by driver number

B. A listing of each driver who made deliveries to state = 'MA' as well as the number of deliveries that each driver has made to that state

C. A count of all of the deliveries made to state = 'MA' by all drivers

D. An error message will be generated

4. (0.200 Point)

We have two tables A and B where A has 25 rows and 4 columns and B has data stored in 50 rows and 6 columns. When the following statement is executed, what will be the output?

SELECT * FROM A UNION SELECT * FROM B

A. All the fields of both tables will be displayed.

B. Returns error, as the number of rows is different.

C. Returns error, as the number of columns is different.

D. All the fields from table A will be displayed.

5. (0.200 Point)

Select invalid type of Trigger.

A. Select

B. Insert

C. Update

D. Delete

6. (0.200 Point)

Which of the following term is NOT advantage of using Stored Procedure?

A. Reduce client traffic

B. Reuse of code

C. Maintainability

D. Testing of a logic which is encapsulated inside a stored procedure

7. (0.200 Point)

Choose the WRONG statement.

A. PL/SQL is Oracle's procedural language extension to SQL.

B. T-SQL is a procedural language.

C. Transact-SQL, also called T-SQL, is Microsoft's and Sybase's proprietary extension to the SQL

D. SQL is a procedural language.

8. (0.200 Point)

What is the most common type of join?

A. Left Join

B. Inner Join

C. Right Join

D. Full Join

9. (0.200 Point)

_____ represents raw facts, whereas _____ is data made meaningful.

A. Information, bits

B. Information, reporting

Code: 1B

C. Data, information

D. Records, bytes

10. (0.200 Point)

A data warehouse

A. contains numerous naming conventions and formats

B. is a system used for reporting and data analysis

C. contains only current data

D. can be updated by end users

11. (0.200 Point)

What are the authentication modes in SQL Server?

A. Windows authentication mode

B. mixed mode

C. Windows authentication mode and mixed mode

D. None of the above

12. (0.200 Point)

Which of the following keyword is used to raise an error in stored procedure?

A. THROW

B. THROWERROR

C. RAISERROR

D. ERROR

13. (0.200 Point)

There is a table Student, which has a field studentname containing names of students. Which of the following wildcard is to be used to retrieve names of students, which don't start with e to g range?

A. [^e-g]%

B. [e-g]%

C. [e^g]%

D. [efg]%

14. (0.200 Point)

The database administrator is, in effect, the coordinator between the ____ and the ____

A. Database, users

B. Application program; database

C. DBMS; database

D. Application programs; users

15. (0.200 Point)

An executable statement accessing the data in the database is called as _____.

A. Query

B. Transaction

C. Operation

D. Statement

II. Part 2 (0.3 points for each correct answer): Short-answer questions

Q1. What is a Data warehouse?

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Q2. Write a SQL statement to create a login 'Login1' with password 'abc@123'.

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Q3. Write a SQL statement to create a user named 'Student1' with the login 'Login1'

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Q4. Write a SQL statement to grant SELECT privilege on two columns NAME and PHONE.

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Q5. Write a SQL statement to revoke INSERT privilege on table CUSTOMER for the user 'Student1'.

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Q6. What is data?

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Q7. What is the difference between Information and Data?

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Q8. Write a SQL statement to create a table named PRODUCT (ProductID, ProductName, UnitPrice, Description). The primary key of the Product table is ProductID.

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Q9. What Are SQL Triggers?

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Q10. What is a SQL Stored Procedure for SQL Server?

III. Part 3 (4 points): Consider a database named **BOOKING** with the following tables:

FLIGHT (FLIGHT_ID, AIRLINE, NUM_OF_SEATS, DEPARTURE, ARRIVAL, DEPARTURE_DATETIME)

FLIGHT_ID	AIRLINE	NUM_OF_SEATS	DEPARTURE	ARRIVAL
PA551	PACIFIC AIRLINES	240	Hanoi(HAN)	Da Nang
SA311	SINGAPORE	400	Hanoi(HAN)	Manila

CUSTOMER (CUSTOMER_ID, FIRSTNAME, LASTNAME, ID_NUMBER, ADDRESS, PHONE)

CUSTOMER_ID	FIRSTNAME	LASTNAME	ID_NUMBER	ADDRESS
KH01	THUY DUONG	NGUYEN	205005303	21 LE LAI, DAN
KH02	VAN NGHIA	NGUYEN	304128756	25 NGUYEN DU

BOOKING (BOOKING_CODE, CUSTOMER_ID, FLIGHT_ID, CLASS)

BOOKING_CODE	CUSTOMER_ID	FLIGHT_ID
DFWECV	KH01	PA551
LKNHQW	KH01	VN300
LKWENB	KH02	VN300
MNYTFG	KH02	VN300

Description:

- The Primary keys of the tables are shown in Italics and Underlined.
- Foreign keys of Table **BOOKING** are presented as follows:
 - ✓ Field **FLIGHT_ID** reference to field **FLIGHT_ID** of table **FLIGHT**
 - ✓ Field **CUSTOMER_ID** reference to field **CUSTOMER_ID** of table **CUSTOMER**

Q1. (0.5 point each) Write SQL statements to perform the following requirements:

1. Write a SQL statement to list CUSTOMER_ID, FIRSTNAME, LASTNAME, FLIGHT_ID, CLASS, AIRLINE, NUM_OF_SEATS, and DEPARTURE where DEPARTURE is 'Da Nang(DAD)'

2. Write a SQL statement to list CUSTOMER_ID, FIRSTNAME, and LASTNAME of Customers who have booked both flights PA551 and VN745.

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Q2. (1.5 points) Write a stored procedure to perform the following requirements:

- Input argument: CUSTOMER_ID
- Out message: Print message "The number of bookings for the customer named X is Y".
X: name of the Customer= FIRSTNAME+ ' ' + LASTNAME, Y: a total of the booking.

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Q3. (1.5 points) Write a trigger to create a constraint. The maximum number of first-class seats on each flight is 2 (class='first').

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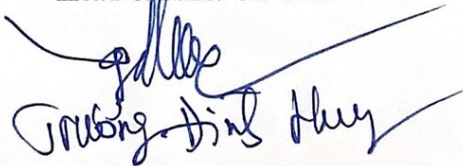
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Head of MIS/ SE Unit



Code: 1B

Instructor


Nguyen Van Loi

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