

COURSES

GROUPS

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GRADES



MOCHAMMAD FEBRIAN



Your assessment has been submitted.



Simulasi Test MTA: Database Fundamental Tests/Quizzes

Try Out MTA-I

Submissions Enabled

Grade: 90.74/100



My Submissions

Test/Quiz

Comments



MOCHAMMAD FEBRIAN SYAHBANA

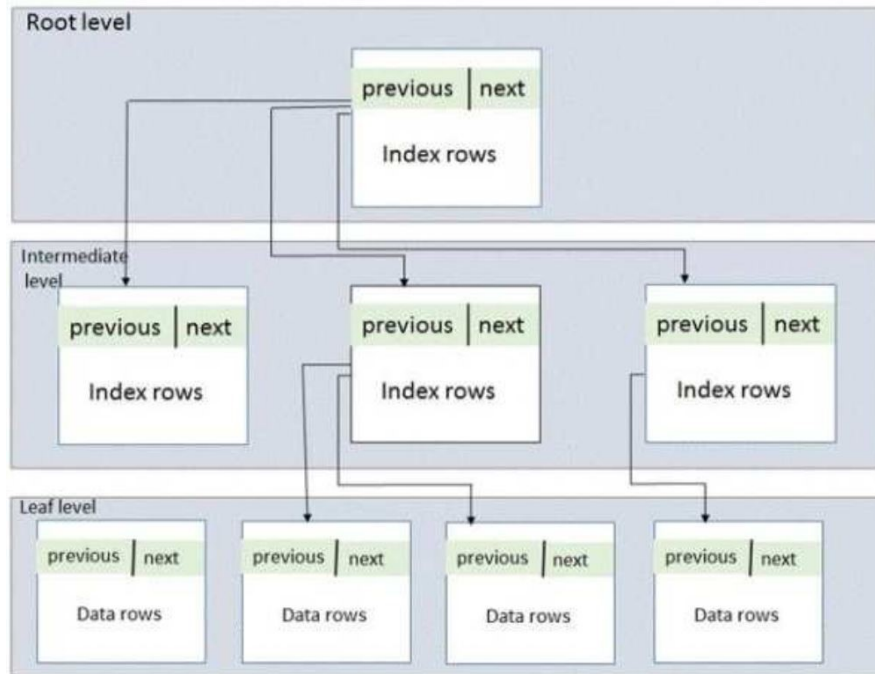
Submission 3



2/2

Question 1

The following illustration shows the structure of a clustered index in a single partition:



Instructions: Select the answer choice that completes each statement. Each correct selection is worth one point.

1. A clustered index improves the performance of queries that [answer choice].
2. A clustered index improves the performance of queries on column that [answer choice].

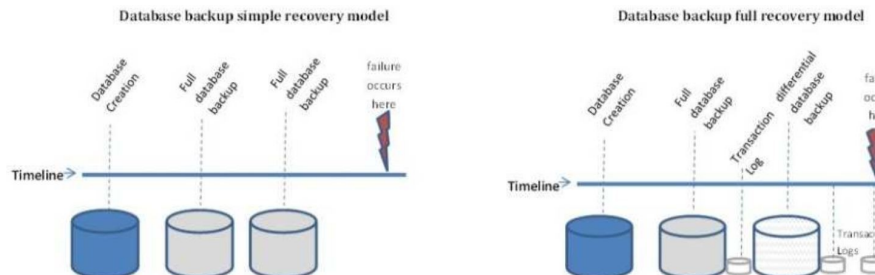
a. return large result

b. are accessed sequentially

2/2

Question 2

The following illustration shows backup strategies that use the simple recovery model and



Instructions: Use the drop-down menus to select the answer choice that completes each statement. Each correct selection is worth one point.

1. Using the simple recovery model for database backups provides [answer choice] work-loss.

c.

exposure than the full recovery model.

more

2. Using the simple recovery model for database backups provides [answer choice] log file backups than the full recovery model.

a. less

1/1

Question 3

This question requires that you evaluate the underlined text to determine if it is correct. ALTER TABLE removes all rows from a table without logging the individual row deletions. Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed". If it makes the statement incorrect, select the answer choice that makes the statement correct.

a. No change is needed

b. TRUNCATE TABLE

c. DROP TABLE

d. CREATE TABLE

1/1

Question 4

You have two tables named Cars and Color as defined below. The two tables are related by

Car Type	Car Model	ColorID
Sedan	2-door	2
Truck	4-door	NULL
Minivan	3-door	1

Color	ColorID
Red	1
Gold	2

You run the following SQL statement:

```
SELECT * FROM Cars
LEFT OUTER JOIN Colors
ON Cars.ColorID = Colors.ColorID
```

How many rows does the SQL statement return?

a. 2

b. 3

c. 0

d. 6

1/1

Question 5

Instructions: For each of the following statements, select Yes if the statement is true.

A SQL Server Login is granted permissions to database views only.

True

False

1/1

Question 6

The INT data type contains only whole numbers.

True

False

1/1

Question 7

This question requires that you evaluate the underlined text to determine if it is correct. Ports 20 and 21 are the default ports to secure a SQL Server.

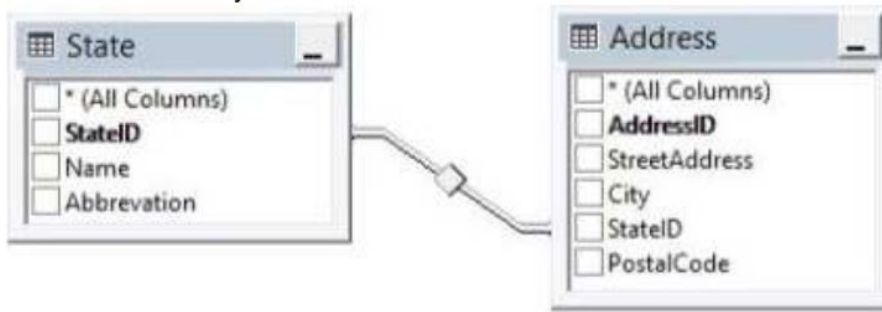
Instructions: Review the underlined text. If it makes the statement correct, select "No c
If the statement is incorrect, select the answer choice that makes the statement correct.

- ☒ a. 1433 and 1434
- b. 411 and 412
- c. No change is needed
- d. 67 and 68

2/2

Question 8

You have two database tables as defined below. The StateID column is unique in the State
The two tables are related by the StateID column.



Instructions: Select the answer choice that completes each statement. Each correct select

1. StateID is a/an [answer choice] in the State table. ☒ b. Primary Key
2. StateID is a/an [answer choice] in the Address table. ☒ c. Foreign Key

1/1

Question 9

This question requires that you evaluate the underlined text to determine if it is correc
Use the ALLOW SELECT command to give a user permission to read the data in a table.
Instructions: Review the underlined text. If it makes the statement correct, select "No c
makes the statement correct

- a. No change is needed
- ☒ b. GRANT SELECT
- c. PERMIT READ
- d. LET HEAD

0/1

Question 10

A transaction log backup backs up all the data in the database.

- ☒ True
- False

1/1

Question 11

A filtered index is a clustered index that is optimized for queries that select a small p

- True
- ☒ False

1/1

Question 12

A non-clustered index is defined on a table or view by using a clustered index or heap.

- ☒ True
- False

2/2

Question 13

You have the following table:

FlightNumber	AirLine
1	Blue Yonder AirLines
2	Margle's AirLines
3	Northwind Trader

Instructions: select the answer choice that completes each statement.
Each correct selection is worth one point.

1. Adding a [answer choice] on the FlightNumber column physically sorts rows in the table by FlightNumber.
2. Adding a [answer choice] on the AirLine column retrieves data faster, but will not physically sort rows in the table by AirLine.

☒ b. clustered index☐ a. nonclustered index

1/1

Question 14

Instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

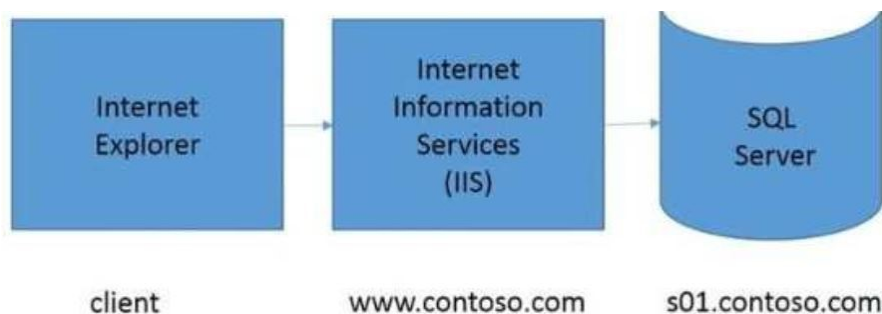
A SQL Server Login can use Windows Authentication.

☒ True☐ False

2/2

Question 15

The following graphic shows the components of a SQL Server application. You access the SQL Server application through Internet Explorer.



Instructions: Select the answer choice that completes each statement. Each correct selection is worth one point.

1. The [answer choice] computer is the first line of defense against SQL injections and weak input validation.
2. The [answer choice] computer should be formatted with NTFS to protect program, database, and log files from unauthorized access.

☒ c. Client☐ b. s01.contoso.com

1/1

Question 16

Instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

You can delete data by using a stored procedure.

☒ True☐ False

1/1

Question 17

This question requires that you evaluate the underlined text to determine if it is correct. Truncate is a database term used to describe the process of applying a backup to a database. Instructions: Review the underlined text. If it makes the statement correct, select "No" makes the statement correct.

- a. Commit

b. Restore

c. Change is needed

d. Attach

1/1

Question 18

Instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

The VARCHAR data type contains only numeric character.

True

False

3/3

Question 19

You have two database tables as defined below.

The first table contains information about students. The second table contains information about courses. The two tables are related by CourseID.

StudentID	StudentName	CourseID	CourseID	CourseName
1	Brad	4	1	Math
2	Joe	1	2	Science
3	Susan	2	3	Geography
			4	Reading
			5	History

Match the CourseName to the StudentName.

Instructions: To answer, drag the appropriate CourseName from the column on the left to the StudentName. Each CourseName may be used once, more than once, or not at all.

Each correct match is worth one point.

StudentName	CourseName
Brad	Answer
Joe	Answer
Susan	Answer

1. Brad

a. Reading

2. Joe

c. Math

3. Susan

b. Science

1/1

Question 20

Your class project requires that you help a charity to create a website that registers volunteers. The website must store the following data about the volunteers:

~Given name
~Surname
~Telephone number
~Email address

You need to recommend a correct way to store the data.
What do you recommend?

a. Create a table that contains rows that are named given name, surname, phone number, and email.

b. Create a view that contains columns that are named given name surname, phone number, and email.

c. Create a table that contains columns that are named given name, surname, phone number, and email.

d. Create a view that contains rows that are named given name surname, phone number, and email

1/1

Question 21

This question requires that you evaluate the underlined text to determine if it is correct. First normal form requires that a database excludes repeating groups.

Instructions: Review the underlined text. If it makes the statement correct, select "No c
If the statement is incorrect, select the answer choice that makes the statement correct.

☒ a. No change is needed.

b. Foreign keys

c. Composite keys

d. Duplicate rows

1/1

Question 22

A full database backup is a copy of all of the data in the entire database

☒ True

False

3/3

Question 23

Your class project requires that you help a charity set up a website.

The website collects information about volunteers. Each volunteer record must be uniquely

The following information is stored for each volunteer:

- Given name
- Surname
- Date of birth
- Phone number
- Photo

You need to create a table to meet the requirements.

Match the Structured Query Language SQL statements to the SQL query.

Instructions: Select the appropriate SQL statement from the column on the left to its pla

CODE SEGMENT	ANSWER AREA
(1) TIMESTAMP NULL,	CREATE TABLE [dbo].[Volunteer]
(2) DATE NULL,	(
(3) IMAGES NULL,	[Id] <Code Segment>
(4) XML NULL,	[GivenName] NCHAR(255) NULL,
(5) INT NOT NULL PRIMARY KEY,	[SurName] NCHAR(255) NULL,
(6) INT NOT NULL FOREIGN KEY,	[DateOfBirth] <Code Segment>
	[PhoneNumber] NCHAR(10) NULL,
	[Photo] <Code Segment>
)

a. (5), (2), (1)

☒ b. (5), (2), (3)

c. (6), (2), (1)

d. (6), (2), (3)

1/1

Question 24

The NUMERIC data type contains only numbers that have decimal places.

☒ True

False

0/1

Question 25

Instructions: For each of the following statements, select Yes if the statement is true.
Otherwise, select No. Each correct selection is worth one point.

A Clustered index sorts and Stores the data columns of a table or view in order, based on

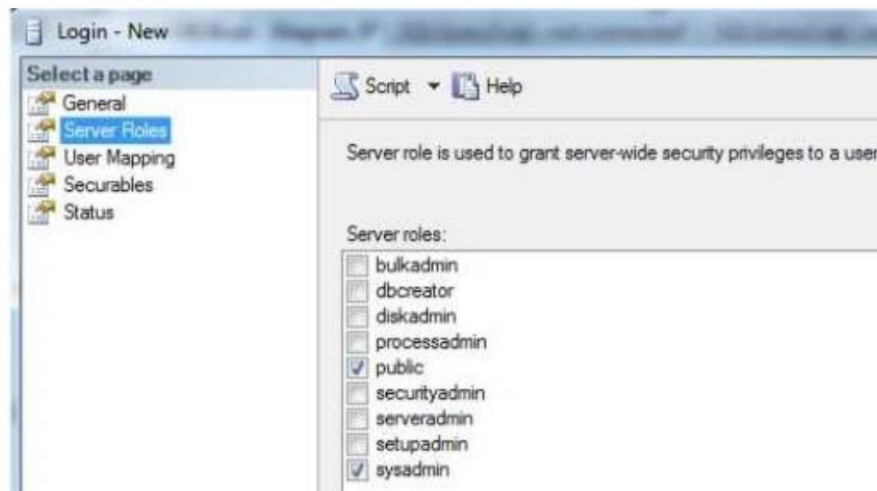
☒ True

False

0/2

Question 26

You have a user that has server roles as defined below:



Instructions: Select the answer choice that completes each statement.
Each correct selection is worth one point.

1. The user can perform [answer choice] action on data that is on the server.
2. The user can perform [answer choice] action on database objects that are on the server.

b. No

a.
unlimited

1/1

Question 27

You are creating a database object named Student to store the following data:

```
+-----+-----+
| ID | Name | Age |
+-----+-----+
| 1 | Rene | 18 |
| 2 | Tia | 22 |
| 3 | Oleva | 25 |
+-----+-----+
```

Which syntax should you use to create the object?

- a. CREATE (TABLE Student ID Int, Name VARCHAR(100), AGE INT)
- b. CREATE TABLE Student (ID Int, Name VARCHAR(100), AGE INT)
- c. CREATE TABLE (ID Int, Name VARCHAR(100), AGE INT)
- d. CREATE Student (ID Int, Name VARCHAR(100), AGE INT)

1/1

Question 28

You need to delete a database table.
Which data definition language (DDL) keyword should you use?

- a. TRUNCATE
- b. DELETE
- c. ALTER
- d. DROP

0/1

Question 29

A differential backup copies only data that was change before the last full backup.

True

False

3/3

Question 30

You have a database table that stores information about school attendance.

You have a data set that is defined as follows:

StudentName	GradeLevel	DaysAbsent
John	12	2.5
Holly	12	0.0
David	12	3.0

You have the following requirements:

- StudentName must consist of a string of characters.
- GradeLevel must be only a whole number.
- DaysAbsent can have one number after the decimal.

Match the data types to the column names.

Instructions: To answer, select the appropriate data type from the column on the left to Each correct match is worth one point.

DATA TYPE	ANSWER AREA
(1) BIT	Column name Data type
(2) DATETIME	
(3) DECIMAL	StudentName Data type
(4) INT	GradeLevel Data type
(5) VARCHAR	DaysAbsent Data type
(6) Char	

a. (6), (3), (1)

b. (5), (1), (3)

c. (6), (1), (3)

d. (5), (4), (3)

1/1

Question 31

You have the following SQL query

```
SELECT * FROM dbo.ProAthlete WHERE Salary > 500000
```

The query takes too much time to return data.

You need to improve the performance of the query.

Which item should you add to the Salary column?

a. Default constraint

b. Index

c. Non-null constraint

d. Foreign key

1/1

Question 32

A file or filegroup restore specifies a portion of the database to recover.

True

False

1/1

Question 33

You develop a database to store data about textbooks. The data must be stored to process

Which database object should you use to store the data?

a. Function

b. Stored procedure

c. View

d. Table

1/1

Question 34

Instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

A SQL Server Role provides permissions at the server local.

☒ True☐ False

3/3

Question 35

You need to set up a database to provide a view of North American mammals.

Match the Structured Query Language (SQL) statements to the SQL query.

Instructions: To answer, drag the appropriate SQL statement from the column on the left t

CODE SEGMENT		
(1) CREATE VIEW [dbo].[NorthAmericanMammals_View]		Code Segment
(2) GENERATE VIEW [dbo].[NorthAmericanMammals_View]		Code Segment
(3) AS JOIN a.Id, a.Name		Code Segment
(4) AS SELECT a.Id, . a.Name		WHERE a.Class = 'Mam
(5) FROM Animal a		AND a.InNorthAmerica
(6) JOIN Animal a		

a. (1), (4), (5)

b. (2), (5), (6)

☒ c. (1), (3), (5)

d. (2), (3), (5)

1/1

Question 36

You work at a coffee shop. They ask you to set up a website that stores charges on purcha
You need to recommend a data type in a database table to run financial functions against
Which data type should you recommend?

a. Money

☒ b. Varchar

c. Bit

d. Binary

1/1

Question 37

An unique index ensures that the index key contains no duplicate values and that every ro

☒ True☐ False

1/1

Question 38

You accept an IT internship at a local charity. The charity asks you to keep a record of
When volunteers ask to be removed from mailing lists, the table must be updated.

You need to use a transaction to ensure that the database has data integrity and referent

a. OPEN TRANSACTION VolunteerDelete;
DELETE FROM Volunteer WHERE Id = 13;
CLOSE TRANSACTION VolunteerDelete;

b. BEGIN TRANSACTION VolunteerDelete;
DELETE FROM Volunteer WHERE Id = 13;
COMMIT TRANSACTION VolunteerDelete;

c. UPDATE TRANSACTION VolunteerDelete;
DELETE FROM Volunteer WHERE Id = 13;
END TRANSACTION VolunteerDelete;

```
d. WHILE TRANSACTION VolunteerDelete;  
DELETE FROM Volunteer WHERE Id = 13;  
CATCH TRANSACTION VolunteerDelete;
```

1/1

Question 39

Instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

A function must have a return value.

☒ True☐ False

1/1

Question 40

Instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

A stored procedure must have a return value.

☐ True☒ False[Back to assessments](#)