# RDBMS

1.CREATE TABLE XX\_Student(name varchar(10))

INSERT INTO XX\_Student(name) values(1234567890)

ALTER TABLE XX\_Student

ALTER COLUMN name varchar(1)

**The above statement is correct?**

1. yes B. No

**Answer:** B. No

**2. What is the primary purpose of the GRANT statement in SQL Server?**

A. To remove a role from a user  
B. To provide a user with access to a database object  
C. To create a new role  
D. To deny a user access to a database object

**Answer**: B. To provide a user with access to a database object

**3. CREATE Table XX\_Student1 (ID int )**

**INSERT INTO XX\_Student1 Values (1),(2), (3),(null)**

**Select Count(3) from XX\_Student , result as**

A.1 B. 0 C.4 D. null

**Answer:** C.4

**4. CREATE Table XX\_Student1 (ID int )**

**INSERT INTO XX\_Student1 Values (1),(2), (3),(null)**

**Update XX\_Student SET name=4 where name=null**

A. Statement is correct

B. Error

C. 1 record gets affected

D. 0 record gets affected

**Answer:** D

5. **CREATE Table XX\_Student (ID int PRIMARY Key, Name Varchar(10))**

**Insert into XX\_Student(ID,name) values(1000,'a'),(1001,'a'),(1002,'a'),(1003,'a')**

**SELECT MAX(ID) , SUM(ID) FROM XX\_Student**

1. Invalid Statement
2. 1002,1002
3. 1000,1000
4. 1003,4006

**Answer:** D 1003,4006

**6. SELECT COUNT(1) FROM table Where name like ‘\_\_\_[ab]’**

**Table Values:**

|  |  |
| --- | --- |
| **ID** | **Name** |
| 1 | Aaaa |
| 2 | Bbbb |
| 3 | Abcd |
|  |  |

A.0 B.1 C.2 D. 3

**Answer:** C

**7. SELECT \* FROM (SELECT \* from table) a1 ORDER BY a1.ID DESC**

**TABLE VALUES**

|  |  |
| --- | --- |
| **ID** | **Name** |
| 1 | A |
| 2 | B |
| 3 | C |
| 4 | D |

A.

|  |  |
| --- | --- |
| ID | Name |
| 1 | A |
| 2 | B |
| 3 | C |
| 4 | D |

B.

|  |  |
| --- | --- |
| ID | Name |
| 4 | D |
| 3 | C |
| 2 | B |
| 1 | A |

**Answer:** B

**8) By using trigger, one cannot prevent a row from deleting:**

A.True B.False

**Answer**: B.False

**9) SQL Stands for**

A. Structured Query Language

B. Server Query Language

C. Summary Query Language

D. Symmetry Query Language

**Answer**: A. Structured Query Language

**10) Which of the following is not the type of table event for trigger:**

A. INSERT

B. DELETE

C. SELECT

D. UPDATE

**Answer**: C.SELECT

**11)** **CREATE TABLE XX\_STUDENTS(**

**ID int,**

**name VARCHAR(5))**

**Insert into xx\_Students values(1,'a')**

**CREATE VIEW FETCH\_VIEW AS SELECT ID, NAME from XX\_STUDENTS**

**DELETE from FETCH\_VIEW**

1. Records deleted in the XX\_Students table
2. Records not deleted from XX\_Students table
3. Records deleted from FETCH\_VIEW only
4. Delete statement is not allowed

Answer: A. Records deleted in the XX\_Students table

**12) In the OLAP, De-normalization , the process helps in**

A. Read-Heavy application

B. Write-Heavy application

C. Both Read-Heavy and Write-Heavy application

D. None of them

Answer: A. Read-Heavy application

**13) Which of the below is accepted value entry for Unique Constraint?**

A. (1),(2),(3),(null)

B. (1),(2),(null),(null)

C. (1),(1),(2),(3)

D. (1),(2),(3),(3)

Answer: A. (1),(2),(3),(null)

**14. What @@FETCH\_STATUS > 0 count in TSQL denotes**

A. End of procedure

B. Status of the last cursor FETCH statement

C. End of Commit

D. Total Transaction count

**Answer:** B. Status of the last cursor FETCH statement

**15. What does Referential Integrity of data refers to in RDBMS?**

A. Unique Constraint B. Foreign Key, Primary Key

C. Default Constraint D. NOT NULL constraint

**Answer**: B. Foreign Key, Primary Key

# MongoDB

**1) Can we use $inc, instead of $set in UpdateOne({name: “Arun”},{$inc: {age: 1}})**

a. yes b.No

**Answer**: a.yes

**2) UpdateOne() has upsert option which helps in:**

A. Only insert for matching condition

B. Only update for matching condition

C. Delete document for no matching condition

D. Insert instead of update for no matching condition

**Answer**: D. Insert instead of update for no matching condition

3: **What does a MongoDB driver do? (Select one.)**

a. Executes an aggregation pipeline

b. Connects MongoDB to applications via programming languages

c. Controls replication and sharding across servers

D.  Creates different types of charts of our data

**4. How can you fix the following error? (Select one.)**

MongoServerSelectionError: connection <monitor> to 34.239.188.169:27017 closed

a.Update database access with the correct user credentials.

b.Add your IP address in the Network Access panel in Atlas.

c.Create a new database on your Atlas cluster.

D. Update proper collection in Database

5. **Which of the following operators can be used to find a subdocument that matches specific criteria in an array?**

**a.** &element

**b.** $elemMatch

**c.** $subMatch

**D.**  $docMatch

Answer: **b.** $elemMatch

6. **Which index would most effectively support the following query? (Select one.)**

db.collection.find({ username: "j0hnny", timestamp: { $gte: ISODate("2021-05-18T00:00:00.000Z"), $lt: ISODate("2021-05-18T13:00:00.000Z") }})

**A.** db.collection.createIndex({ username: 1, timestamp: 1 })

**B.** db.collection.createIndex({ timestamp: 1, username: 1 })

**C.** db.collection.createIndex({ username: 1 })

**D.**  db.collection.createIndex({ timestamp: 1 })

**Answer**: a. Option A

db.collection.createIndex({ username: 1, timestamp: 1 }) is the most effective index for this query. This is because our equality match is the index prefix so MongoDB can quickly filter out the documents that don’t match before applying the range query.

# Agile , SDLC and BA Roles

1. **In Sprint, blockers/impediments of a story/issue/bug should be first addressed by**
2. Product owner
3. Scrum Master
4. Project Manager
5. Another Scrum member

**Answer:** B. Scrum Master

1. **At the end of the Sprint, below ceremony is conducted in Agile teams**
2. Sprint Retrospective
3. Sprint Review
4. Sprint planning
5. Sprint Discussion

**Answer:** A. Sprint Retrospective

1. **What’s the not the use of Use case diagram used by BA**
2. Graphical representation of interactions between actors & the system
3. It helps stakeholders understand the system
4. Depicting various use cases (functionalities)
5. Technical implementation with Scripts in software languages

**Correct Answer:** D. Technical implementation with Scripts in software languages

1. **What’s product backlog consist of?**

**A.** Detailed project schedules and timelines  
B. Tasks assigned to team members with deadlines  
C. A prioritized list of features, enhancements, bug fixes, and other requirements for the product  
D. The final product release notes and user manuals

* **Correct Answer:** C. A prioritized list of features, enhancements, bug fixes, and other requirements for the product

1. **Which chart in Agile tracks the remaining work in a sprint over time?**

A. Burn-up Chart  
B. Cumulative Flow Diagram  
C. Velocity Chart  
D. Burn-down Chart

* **Correct Answer:** D. Burn-down Chart