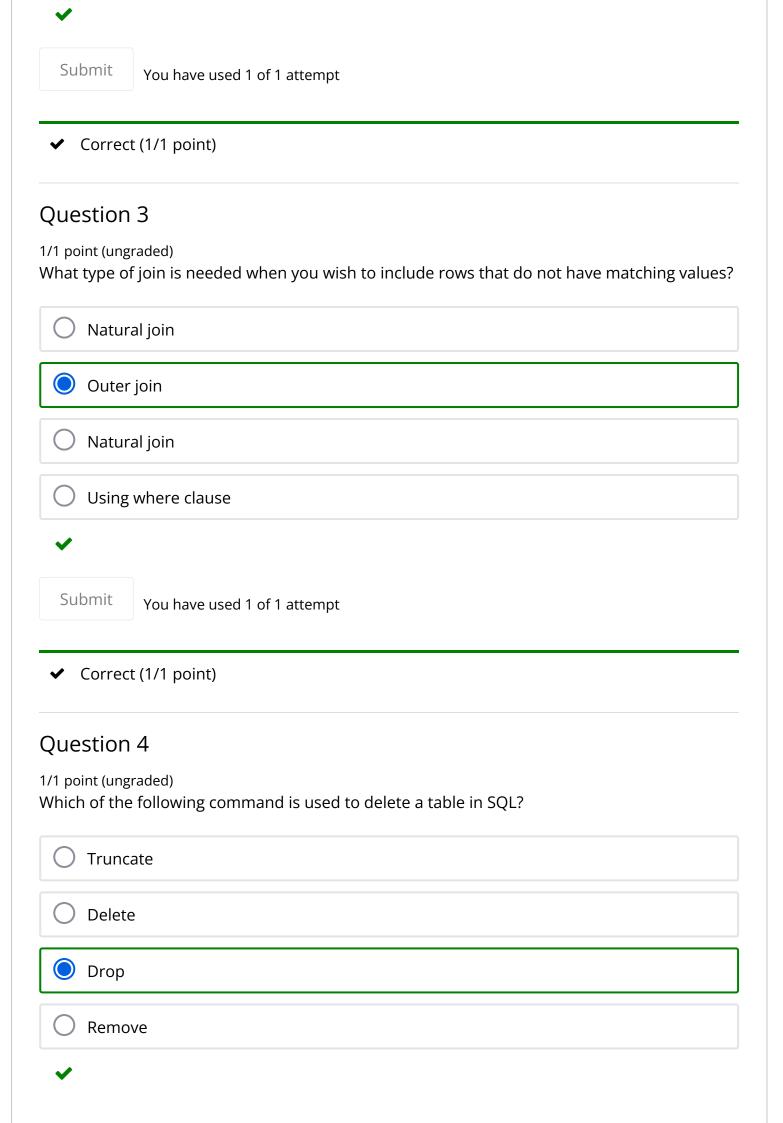
Final Assessment for Foundation

<u>Course</u> > <u>Final Assessment</u> > <u>Quiz</u> > Track

Final Assessment for Foundation Track

Question 1
1/1 point (ungraded) Which of the following statements about primary keys and foreign keys in SQL is correct
A primary key is used to establish a relationship between two tables.
A foreign key ensures referential integrity between related tables.
A foreign key is a column or set of columns that uniquely identifies a row in a table.
A foreign key is a column or set of columns that uniquely identifies a row in a table.
Submit You have used 1 of 1 attempt ✓ Correct (1/1 point)
Question 2
1/1 point (ungraded) A clustering index is defined on the fields which are of type
onn-key and ordering
onon-key and non-ordering
key and ordering
key and non-ordering



The average salary of male employees is more than the average salary of all male employees in the company
The average salary of male employees is more than the average salary of employees in the same department
The average salary of male employees is more than the average salary in the company
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 7 1/1 point (ungraded) Which keyword is used to retrieve unique data from a column?
UNIQUE
SAME
UNIQUEDATA
O DISTINCT
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 8
1/1 point (ungraded)

What is a view?

A database table.
A type of database object that is a virtual table based on the result set of a SELECT statement
A database backup file format
A compiled set of SQL statements
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 9 1/1 point (ungraded) Which SQL statement is used to sort the result set in descending order?
Order attribute_name DESC
Order by attribute_name DESC
Order by attribute_name
Order by DESC attribute_name
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Ouestion 10

Question 10

1/1 point (ungraded)

Which SQL keyword do we use to set some value to a field whose value has not been giving explicitly

o default.
Check
Ounique
O Not Null
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 11 1/1 point (ungraded) What is a savepoint?
A point in a transaction to which the transaction can be rolled back.
A database configuration parameter
A type of database backup
O Virtual Table
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 12

When we create any table, we should create a primary key otherwise we cannot create the table.

O True
■ False
•
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 13
1/1 point (ungraded) What is an alternate key in SQL
O An alternate key is another term for a primary key.
O An alternate key is a candidate key that is not selected as the primary key.
O An alternate key is another term for a foreign key.
O None of these
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 14
1/1 point (ungraded) student (roll, name, address) -Primary Key is roll
marks (roll, cmarks, javamarks) – Foreign Key is roll
Which Statement is Correct?
Select * from student and marks;

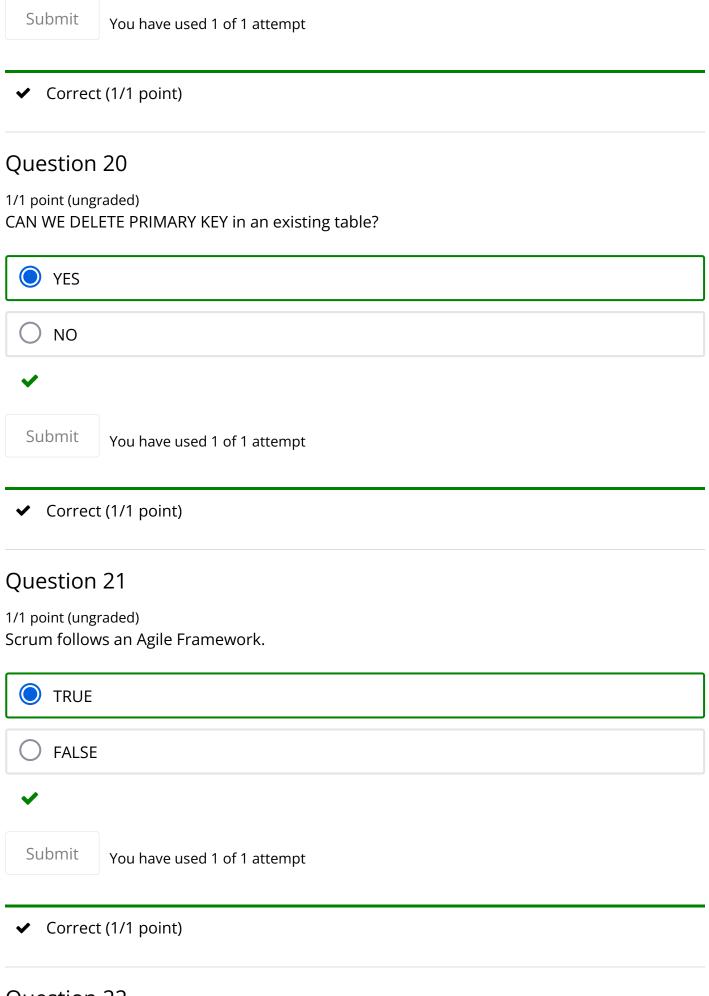
Select * from student, marks where student.roll = marks.roll
Select roll, name, cmarks, javamarks from student,marks where student.roll = marks.roll
Select student.roll, name, cmarks, javamarks from student, marks where student.roll = marks.roll
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 15 1/1 point (ungraded) You are working as a data analyst for a company that manages both employees and their assigned projects. The database schema includes two tables: "Employees" with columns "EmployeeID" and "EmployeeName," and "Projects" with columns "ProjectID," "EmployeeID," and "ProjectName." Your task is to retrieve a list of all employees and their assigned projects, including those who are not currently assigned to any project and projects that have no assigned employees. Which SQL join should you use? O INNER JOIN
FULL OUTER JOIN
RIGHT JOIN
O LEFT JOIN
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Ougstion 16

Question 16

should keep track of students, courses, and their enrollment details. A student can enroll in multiple courses, and each course can have multiple students. Which option represents the correct relationship notation between the "Students" and "Courses" entities in the E-R diagram?
One-to-One (1:1) relationship
One-to-Many (1:N) relationship
Many-to-Many (N:N) relationship
Many-to-One (N:1) relationship
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 17
1/1 point (ungraded) emp (empno, name, email, mobile)
Display all employee name whose name has "a" alphabet.
Select correct SQL Query
Select name from emp where name = "a"
Select name from emp where name like "a"
Select name from emp where name like "%a"
Select name from emp where name like "%a%"
Submit You have used 1 of 1 attempt

You are designing an E-R diagram for a university's student management system. The system

✓ Correct (1/1 point)
Question 18
1/1 point (ungraded) You are a database administrator responsible for managing a company's project database. Recently, you received a request from the HR department to generate a report that shows th total number of employees working in each project. Which SQL query will you use to retrieve the required information?
SELECT COUNT() FROM table_name GROUP BY project;
SELECT COUNT(DISTINCT (project)) FROM table_name;
SELECT project, COUNT(*) FROM table_name GROUP BY project;
SELECT SUM(COUNT(*)) FROM table_name GROUP BY project;
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 19
1/1 point (ungraded) Which operator is used to check if a value is in a list of values in SQL?
O BETWEEN
● IN
LIKE
O IS NULL
✓



Question 22

0/1 point (ungraded)

Who is responsible for removing obstacles or impediments that the scrum team faces during the development phase?

O Scrum Master
Product Owner
O Development Team
Stakeholders
Submit You have used 1 of 1 attempt
➤ Incorrect (0/1 point)
Question 23 0/1 point (ungraded) Which Scrum artifact represents a list of desired product features, enhancements, and bug fixes that make up the product backlog? Sprint Backlog
User Stories
O Burndown Chart
O Product Backlog
×
Submit You have used 1 of 1 attempt
➤ Incorrect (0/1 point)
Ouestion 24

You are part of an Agile development team working on a software project. During a sprint, the team encounters a technical issue that requires a significant amount of time to resolve. The team realizes that they won't be able to complete all the planned user stories within the

Extend the sprint duration to accommodate the extra work.
Remove the incomplete user stories from the sprint backlog and continue with the remaining ones.
O Discuss the issue with the product owner and collectively decide which user stories are the highest priority and should be completed within the sprint.
Add the incomplete user stories to the next sprint backlog and continue working on them.
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 25
1/1 point (ungraded) You are a Scrum Master for a software development team working on a project. During the Sprint Planning meeting, the Product Owner provides a list of user stories to the team. However, some of the stories are vague and poorly defined, making it difficult for the team to estimate their effort accurately. What should you do in this situation?
O Proceed with the planning meeting as scheduled and let the team figure out the details during the Sprint.
Make assumptions about the user stories and estimate their effort based on the available information.
Owner to discuss the vague user stories.
Ask the Product Owner to clarify the vague user stories before proceeding with the planning meeting.
<u> </u>

sprint. What should the team do?

Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 26
1/1 point (ungraded) What is the purpose of sprint burn down chart?
O It is used to measure how much work done.
lt is used to measure how much work is left to be done.
Show Individual team member performance.
O Story telling.
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 27
1/1 point (ungraded) What is done during a Sprint Review Meeting?
O Inspect progress towards the Sprint Goal.
Demo of the Increment and Present the Project's performance to the Stakeholders.
The team discusses the improvements that can be applied for the upcoming sprints.
O Discuss the architectural and technical aspects of the project.
✓

You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 28 1/1 point (ungraded) Agile has principles and values
12 4
O 412
O 84
O 48
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 29
1/1 point (ungraded) Which of the following is the working culture of an Agile team?
Collaborative
Connective
Contemplative
Connective + Contemplative

Submit	You have used 1 of 1 attempt
✓ Correc	t (1/1 point)
Question	30
sprint plann work in the u	raded) ember of an Agile development team working on a software project. During the ing meeting, the team estimates that they can complete 10 story points worth of upcoming sprint. However, the product owner insists on adding an additional 5 to the sprint backlog. What should the team do?
O Seek §	guidance from the Scrum Master to resolve the conflict.
Negot	ciate with the product owner to prioritize the additional work for a future sprint.
O Accep	t the additional 5 story points and adjust the sprint plan accordingly.
O Reject	the additional 5 story points and stick to the original sprint plan.
Submit	You have used 1 of 1 attempt
✓ Correc	t (1/1 point)
Question 1/1 point (ung In Daily Stan	
O True	
False	
✓ Submit	You have used 1 of 1 attempt

✓ Correct (1/1 point)
Question 32
1/1 point (ungraded) It is mandatory that the product increment be released to production at the end of each sprint.
O True
■ False
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 33
1/1 point (ungraded) You are given a Single linked list of numbers, and you need to find the minimum numbers from that linked list. What is the time complexity?
O(1)
O(n)
O(nlogn)
O(n^2)
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 34

Which of the following sorting algorithms can be used to sort a random array with minimum time complexity?
O Bubble Sort
O Selection Sort
O Quick Sort
Merge Sort
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 35 1/1 point (ungraded) Which of the following is true about the linked list implementation of stack?
O In push operation, if new nodes are inserted at the end, then in pop operation, nodes must be removed from the end.
O In push operation, if new nodes are inserted at the beginning of linked list, then in pop operation, nodes must be removed from the beginning
O All of the above
O None of these
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)

Question 36
1/1 point (ungraded) The minimum number of stacks needed to implement a queue is?
O 1
O 4
2
O 3
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 37
1/1 point (ungraded) You needs to store and retrieve bank account no and available dollar in the bank account. The system should allow quick access to the available dollar based on their account no. Which data structure would you choose to implement it?
O Linked List
Array
Graph
O Hash Table
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)

Question 38
1/1 point (ungraded) What is the best time complexity of the bubble sort?
O n^2
O log n (base 2)
o n
O nlog n (base 2)
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 39
1/1 point (ungraded) You must sort 5 GB of data with only 800 MB of available main memory. Which sorting technique will be most appropriate?
O Quick sort
O Selection Sort
O Bubble Sort
Merge Sort
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 40

element in a sorted array?
Maximum – 0(n), Minimum – 0(1)
Maximum – 0(1), Minimum – 0(n)
Maximum – 0(1), Minimum – 0(1)
Maximum – 0(n), Minimum – 0(n)
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 41 1/1 point (ungraded) Stack Follows
Last In First Out (LIFO) Mechanism
C Last In Last Out (LILO) Mechanism
First In First Out (FIFO) Mechanism
First In Last Out (FILO) Mechanism
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 42

In Single LinkedList we can Traverse only One direction.
○ TRUE
O FALSE
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 43 1/1 point (ungraded) Linear Queue Follows.
C Last In First Out (LIFO) Mechanism
C Last In Last Out (LILO) Mechanism
First In First Out (FIFO) Mechanism
First In Last Out (FILO) Mechanism
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 44 1/1 point (ungraded) There is No Null available in the circular linked list and from the last node, we can traverse to the first node.
○ TRUE

FALSE
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 45
1/1 point (ungraded) Circular Queue is better than Linear Queue because of Efficient memory Management.
TRUE
O FALSE
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 46
1/1 point (ungraded) Dynamic Memory Allocation occurs at
O Compile Time
Runtime
O Loading Time
O None of These
✓
Submit You have used 1 of 1 attempt

✓ Correct (1/1 point)
Question 47
1/1 point (ungraded) Select the correct sequence
O(n) is the best, then O(log2n) and then O(1)
O(1) is the best, then O(log2n) and then O(n)
O(log2n) is the best, then O(1) and then O(n)
O None of these
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Question 48 1/1 point (ungraded) In priority Queue value can be added in any order but at the time of deletion in the DECENDING priority queue, highest priority value will delete first.
TRUE
O FALSE
✓
Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Ouestion 49

TDIJE	tor is the real-life example of Doubly Linked List.
TRUE	
O FALSE	
✓	
Submit	You have used 1 of 1 attempt
✓ Correc	t (1/1 point)
uestion)	1 50
/1 point (ung Sinary Seard	raded) ch can only applicable if the values are already sorted.
inary Sear	ch can only applicable if the values are already sorted.
TRUE	ch can only applicable if the values are already sorted.
TRUE	ch can only applicable if the values are already sorted.
TRUE	ch can only applicable if the values are already sorted.
TRUE FALSE	th can only applicable if the values are already sorted.
TRUE FALSE	th can only applicable if the values are already sorted.
TRUE FALSE	You have used 1 of 1 attempt
TRUE FALSE	You have used 1 of 1 attempt