#### Final Assessment for Foundation

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## **Final Assessment for Foundation Track**

# Question 1

0.0/1.0 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 0 of 1 attempt
Question 2
0.0/1.0 point (ungraded) A clustering index is defined on the fields which are of type
O non-key and ordering
O non-key and non-ordering
O key and ordering
O key and non-ordering

Submit	u have used 0 of 1 attempt
Question 3	
0.0/1.0 point (ungr What type of join	aded)  n is needed when you wish to include rows that do not have matching values?
O Natural jo	in
Outer join	
O Natural jo	in
O Using whe	ere clause
Submit Yo	u have used 0 of 1 attempt
Question 4 0.0/1.0 point (ungr Which of the foll	aded) owing command is used to delete a table in SQL?
O Truncate	
O Delete	
O Drop	
Remove	
Submit Yo	u have used 0 of 1 attempt
Ouestion 5	

0.0/1.0 point (ungraded)
Student (rollno , name, mobileno)

StudentEnroll (rollno, courseno , batchno)	
Rollno is the Primary key for Student Table and Rollno + Courseno is the Primarykey for StudentEnroll Table. The number of tuples in the Student and StudentEnroll tables are 120 and 8 respectively. What StudentEnroll are the maximum and minimum number of tuples that can be present in (Student natural join StudentEnroll)?	
960, 8	
O 8, 8	
8, 960	
120, 8	
Submit You have used 0 of 1 attempt	
Question 6	
0.0/1.0 point (ungraded) emp ( empno, name, sex, salary, dept) – Primary Key empno	
Select deptname from emp where sex = "F" group by deptname having avg(salary) > (select avg(salary) from emp)	
The average salary is more than the average salary in the company	
The average salary of male employees is more than the average salary of all male employees in the company	
employees in the company  The average salary of male employees is more than the average salary of employees	
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	

0.0/1.0 point (ungraded) Which keyword is used to retrieve unique data from a column?
UNIQUE
SAME
UNIQUEDATA
O DISTINCT
Submit You have used 0 of 1 attempt
Question 8 0.0/1.0 point (ungraded) What is a view?
O 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 0 of 1 attempt

Question 7

0.0/1.0 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 0 of 1 attempt
Question 10 0.0/1.0 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 0 of 1 attempt
Question 11
0.0/1.0 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 0 of 1 attempt	
Question 12	
0.0/1.0 point (ungraded) When we create any table, we should create a primary key otherwise we cannot create the table.	
O True	
○ False	
Submit You have used 0 of 1 attempt	
Question 13 0.0/1.0 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 0 of 1 attempt	

0.0/1.0 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 0 of 1 attempt		
Question 15  0.0/1.0 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		
O FULL OUTER JOIN		
O RIGHT JOIN		
O LEFT JOIN		

Submit	You have used 0 of 1 attempt
Question	16
should keep multiple cou	ungraded) gning an E-R diagram for a university's student management system. The system track of students, courses, and their enrollment details. A student can enroll in rses, and each course can have multiple students. Which option represents the onship notation between the "Students" and "Courses" entities in the E-R
One-to	o-One (1:1) relationship
One-to	o-Many (1:N) relationship
Many-to-Many (N:N) relationship	
O Many-	to-One (N:1) relationship
Submit	You have used 0 of 1 attempt
Question	17
0.0/1.0 point (uemp (empno	ungraded) , name, email, mobile)
Display all er	nployee name whose name has "a" alphabet.
Select correc	t SQL Query
Select name from emp where name = "a"	
O Select	name from emp where name like "a"
O Select	name from emp where name like "%a"
O Select	name from emp where name like "%a%"

Submit	You have used 0 of 1 attempt
Question '	18
Recently, you	received a request from the HR department to generate a report that shows the of employees working in each project. Which SQL query will you use to retrieve
O SELECT	COUNT() FROM table_name GROUP BY project;
SELECT	COUNT(DISTINCT (project)) FROM table_name;
O SELECT	project, COUNT(*) FROM table_name GROUP BY project;
O SELECT	SUM(COUNT(*)) FROM table_name GROUP BY project;
Submit	You have used 0 of 1 attempt
Question <sup>2</sup>	19
0.0/1.0 point (ui Which operate	ngraded) or is used to check if a value is in a list of values in SQL?
O BETWE	EN
O IN	
LIKE	
O IS NULL	-
Submit	You have used 0 of 1 attempt

YES	
O NO	
Submit	You have used 0 of 1 attempt
Question	21
0.0/1.0 point (u Scrum follow	ungraded) vs an Agile Framework.
O TRUE	
O FALSE	
Submit	You have used 0 of 1 attempt
Question 0.0/1.0 point (u Who is respo the developn	ungraded) Insible for removing obstacles or impediments that the scrum team faces during
Scrum	Master
O Produc	ct Owner
	opment Team

Question 23
0.0/1.0 point (ungraded) Which Scrum artifact represents a list of desired product features, enhancements, and bug fixes that make up the product backlog?
Sprint Backlog
O User Stories
O Burndown Chart
O Product Backlog
Submit You have used 0 of 1 attempt  Question 24
0.0/1.0 point (ungraded) 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 sprint. What should the team do?
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 0 of 1 attempt

Submit	You have used 0 of 1 attempt
Question	25
Sprint Planniı However, sor	ingraded) rum Master for a software development team working on a project. During the rum Master for a software development team working on a project. During the rum meeting, the Product Owner provides a list of user stories to the team. rum of the stories are vague and poorly defined, making it difficult for the team to rum effort accurately. What should you do in this situation?
	ed with the planning meeting as scheduled and let the team figure out the during the Sprint.
	assumptions about the user stories and estimate their effort based on the ble information.
	e Sprint Planning meeting and schedule a separate meeting with the Product to discuss the vague user stories.
	e Product Owner to clarify the vague user stories before proceeding with the ng meeting.
Submit	You have used 0 of 1 attempt
Question	26
0.0/1.0 point (u What is the p	ingraded) urpose of sprint burn down chart?
O It is us	ed to measure how much work done.
O It is us	ed to measure how much work is left to be done.

Show Individual team member performance.

Story telling.

You have used 0 of 1 attempt
Question 27
0.0/1.0 point (ungraded) What is done during a Sprint Review Meeting?
what is done during a sprint neview weeting:
O Inspect progress towards the Sprint Goal.
O 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.
Submit You have used 0 of 1 attempt
Question 28 0.0/1.0 point (ungraded)
Agile has principles and values
O 12 4
O 412
O 84
O 48
Submit You have used 0 of 1 attempt

0.0/1.0 point (ungraded)

Which of the following is the working culture of an Agile team?

Collaborative
Connective
Contemplative
Connective + Contemplative
Submit You have used 0 of 1 attempt
Question 30
0.0/1.0 point (ungraded) You are a member of an Agile development team working on a software project. During the sprint planning meeting, the team estimates that they can complete 10 story points worth of work in the upcoming sprint. However, the product owner insists on adding an additional 5 story points to the sprint backlog. What should the team do?
Seek guidance from the Scrum Master to resolve the conflict.
Negotiate with the product owner to prioritize the additional work for a future sprint.
Accept the additional 5 story points and adjust the sprint plan accordingly.
Reject the additional 5 story points and stick to the original sprint plan.
Submit You have used 0 of 1 attempt
Question 31
0.0/1.0 point (ungraded) In Daily Standup, team reports status to the Scrum master.
O True
O False

Submit	ou have used 0 of 1 attempt
Question 3	2
0.0/1.0 point (un lt is mandatory sprint.	graded) / that the product increment be released to production at the end of each
O True	
O False	
Submit	ou have used 0 of 1 attempt
O(1)	
O(n)	
O(nlogn	
O(n^2)	
Submit	You have used 0 of 1 attempt

0.0/1.0 point (ungraded)

Which of the following sorting algorithms can be used to sort a random array with minimum time complexity?

O Bubble Sort
Selection Sort
O Quick Sort
O Merge Sort
Submit You have used 0 of 1 attempt
Question 35
0.0/1.0 point (ungraded) Which of the following is true about the linked list implementation of stack?
In push operation, if new nodes are inserted at the end, then in pop operation, nodes must be removed from the end.
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
All of the above
O None of these
Submit You have used 0 of 1 attempt
Question 36
0.0/1.0 point (ungraded) The minimum number of stacks needed to implement a queue is?
O 1
O 4

O 2
O 3
Submit You have used 0 of 1 attempt
Question 37
0.0/1.0 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
O Array
Graph
O Hash Table
Submit You have used 0 of 1 attempt
Question 38
0.0/1.0 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)

0.0/1.0 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 Select	ion Sort
O Bubbl	e Sort
O Merge	e Sort
Submit	You have used 0 of 1 attempt

### Question 40

0.0/1.0 point (ungraded)

Which of the following is true for computation time in finding maximum and minimum 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 0 of 1 attempt

Question 41
0.0/1.0 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 0 of 1 attempt
Question 42 0.0/1.0 point (ungraded) In Single LinkedList we can Traverse only One direction.
O TRUE
FALSE
Submit You have used 0 of 1 attempt
Question 43
0.0/1.0 point (ungraded) Linear Queue 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 0 of 1 attempt
Question 44
0.0/1.0 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 0 of 1 attempt
Question 45
0.0/1.0 point (ungraded) Circular Queue is better than Linear Queue because of Efficient memory Management.
O TRUE
O FALSE
Submit You have used 0 of 1 attempt
Question 46
0.0/1.0 point (ungraded)  Dynamic Memory Allocation occurs at
O Compile Time

Runtime
O Loading Time
O None of These
Submit You have used 0 of 1 attempt
Question 47
0.0/1.0 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 0 of 1 attempt

TRUE	
O FALSE	
Submit	You have used 0 of 1 attempt
Question	49
.0/1.0 point (u .ny text edito	ngraded) or is the real-life example of Doubly Linked List.
O TRUE	
O FALSE	
Submit	You have used 0 of 1 attempt
Question	50
.0/1.0 point (u inary Search	ngraded) n can only applicable if the values are already sorted.
O TRUE	