

15. Inferential Statistics

In a particular game series, the following cumulative probability table has bee particular player in one game.

×	$F(x) = P(X \le x)$	
20	0.2	
40	0.26	
60 80	0.4	
80	0.8	
120	0.95	
200	1	

If the player played 40 games in that series, calculate the number of games in to 120 points

Answer Options

B

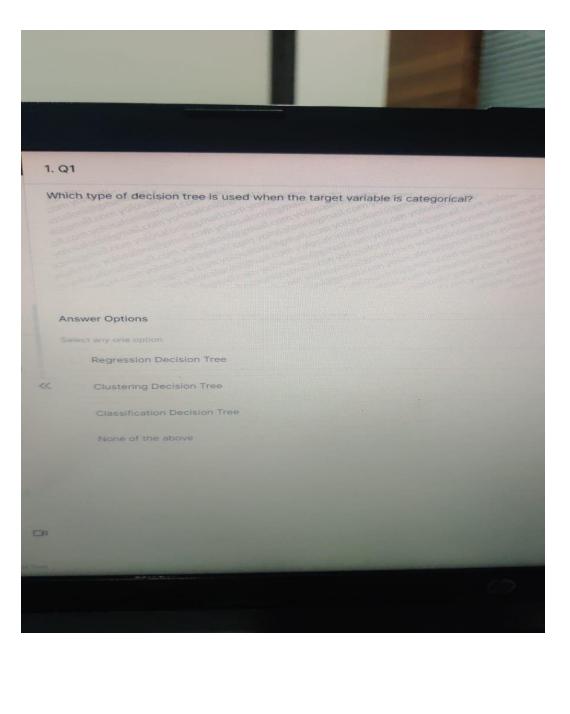
Select any one option

10

12

14

6

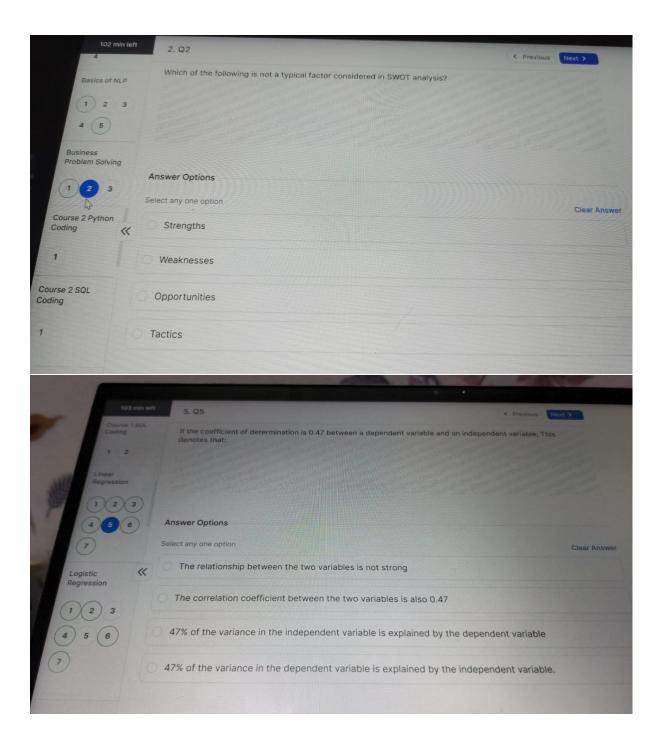


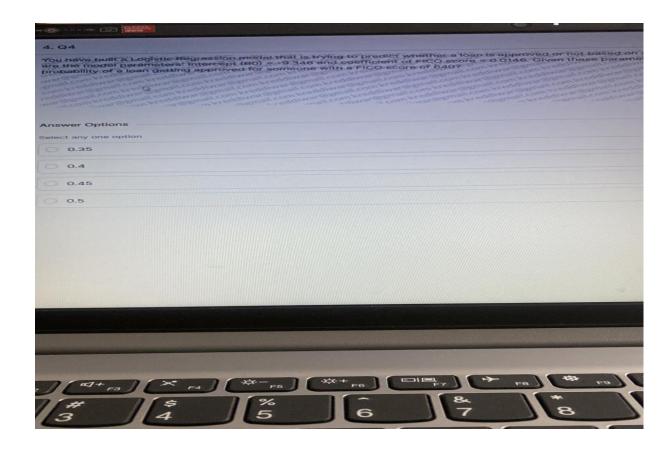
16. Inferential Statistics

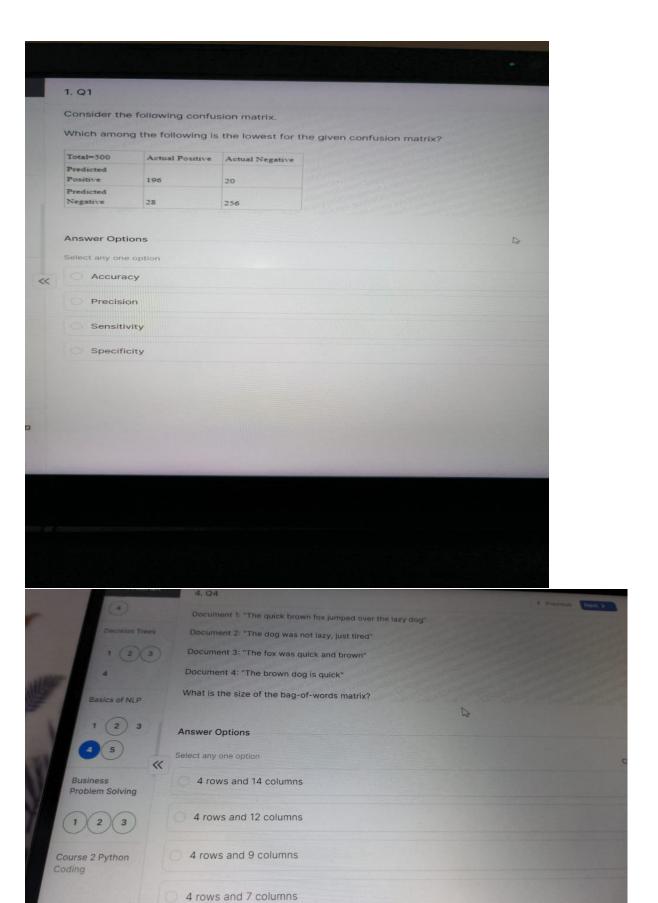
<<

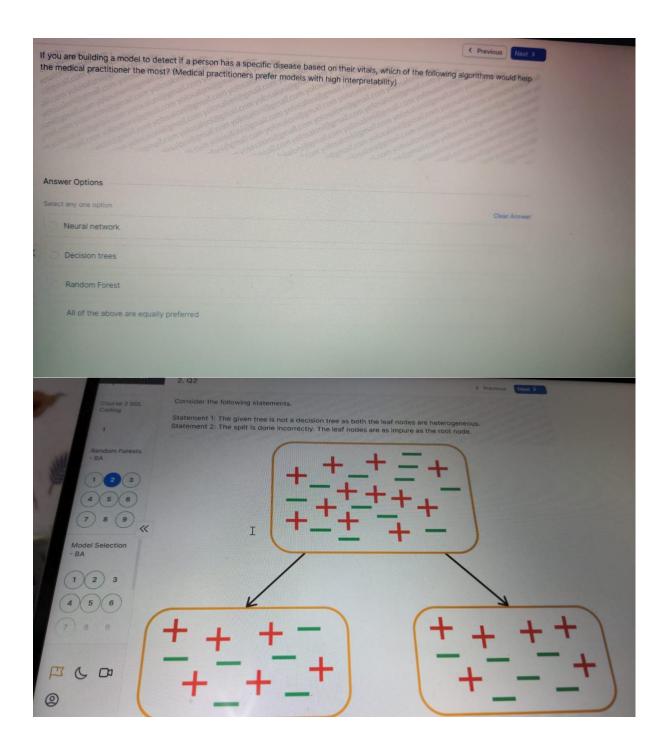
For a random variable that is normally distributed the mean comes out to be experiment, what would be the probability that the value of this random variable.

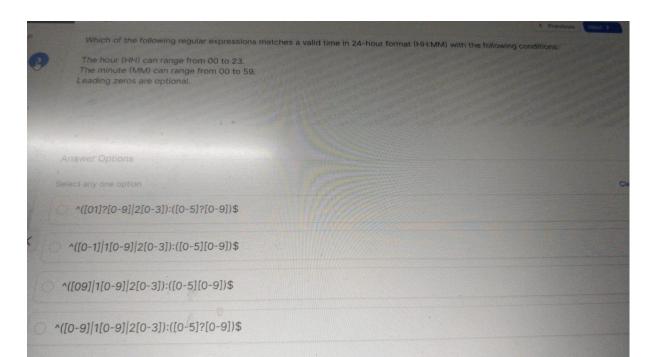
	E. S. S.										
- 2	.00	.01	.02	.03	.04	.05	.06	.07	.0	8 .(
-1.7	.0446	.0436 .0427		.0418	.0409	.0401	.0392	.0384		.08 .0375 .03	
-1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.046		
-1.5	.0668	.0655	.0655 .0643		.0618	.0606	.0594	.0582	.057	1 .05	
-1.4	.0808	.0793	.0778	.0764		.0735	.0721	.0708	.069	4 .06	
-1.3	.0968	.0951	.0934	.0918		.0885	.0869	.0853	.083	8 .08	
-1.2	.1151	.1131	.1112	.1093		.1056	.1038	.1020	.100		
-1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.11	
-1.0 -0.9	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401		
-0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685 .1660		.1635		
-0.7	.2420	.2090	.2061	.2033	.2005	.1977	.1949 .1922		.1894		
-0.6	.2743	.2709	.2676	.2327	.2296	.2266	.2236	.2206	.2177		
-0.5	.3085	.3050	.3015	.2981	.2611	.2578	.2546	.2514	.2483		
-0.4	.3446	.3409	.3372	.3336	.3300	.2912	.2877			.277	
-0.3	.3821	.3783	.3745	.3707	.3669	.3264		.3192	.3156	.312	
-0.2	.4207	.4168	.4129	.4090	.4052	.4013		.3557	.3520	.3483	
-0.1	.4602	.4562	.4522	.4483	.4443	.4404		.3936	.3897	.3859	
-0.0	.5000	.4960	.4920	.4880	.4840	.4801		4325 4721	.4286	.4247	
								4/21	.4681	.4641	
	.00	.0)1	.02	.03	.04	.05				
0.0	.5000	.50	140	.5080)6	.07	
0.1	.5398				.5120	.5160	.5199		39	.5279	
0.2	.5793			.5478	.5517	.5557	.5596	.56	36	.5675	
0.3	.6179	E III CONTRACTOR OF THE SAME		.5871	.5910	.5948	.5987			.6064	
0.4	.6554			.6255	.6293	.6331	.6368				
0.5	.6915			.6628	.6664	.6700	.6736	1.707 8		.6443	
0.6	.7257			.6985	.7019	.7054	.7088			.6808	
0.7	7500			.7324	.7357	.7389	.7422			.7157	
0.8	.7580	The second secon		7642	.7673	.7704		.745		.7486	
0.9	7881	.79		7939	.7967	.7995	.7734	.776		7794	
1.0	.8159	The state of the s		8212	.8238	.8264	.8023	.805		8078	
	.8413	100		8461	.8485	.8508	.8289	.831	5 .	8340	
1.1	.8643	.866	55 .	8686	.8708		.8531	.855		8577	
1.2	.8849	.886	59 .	8888	.8907	.8729	.8749	.877		8790	
1.3	.9032	.904	19	9066	.9082	.8925	.8944	.896.		8980	
1.4	.9192	.920)7	9222	.9236	.9099	.9115	.913		9147	
1.5	.9332	.934	15	9357		.9251	.9265	.9279			
1.6	.9452	.946	3 (9474	.9370	.9382	.9394	.9406		292	
1.7	.9554	.956		9573	.9484	.9495	.9505	.9515		418	
1.8	.9641	.964		9656	.9582	.9591	.9599	050		525	
1.9	.9713	.971			.9664	.9671	.9678	.9608		616	
2.0	.9772	.977	STREET, STREET	783	.9732	.9738	.9744	.9686		693	
100			10	103	.9788		A LONG TO BE AND ADDRESS OF THE PARTY OF THE	.9750	0	756	

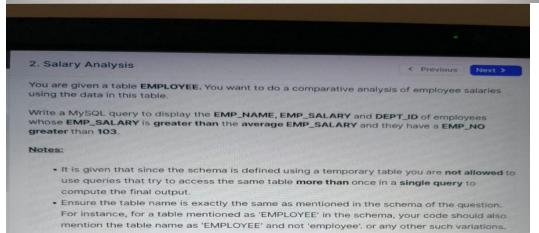




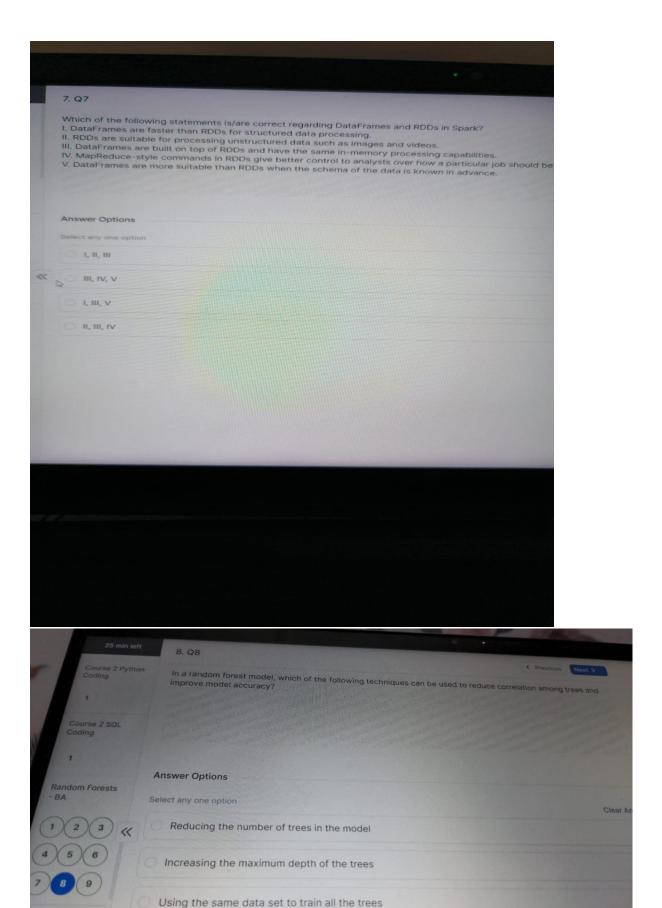








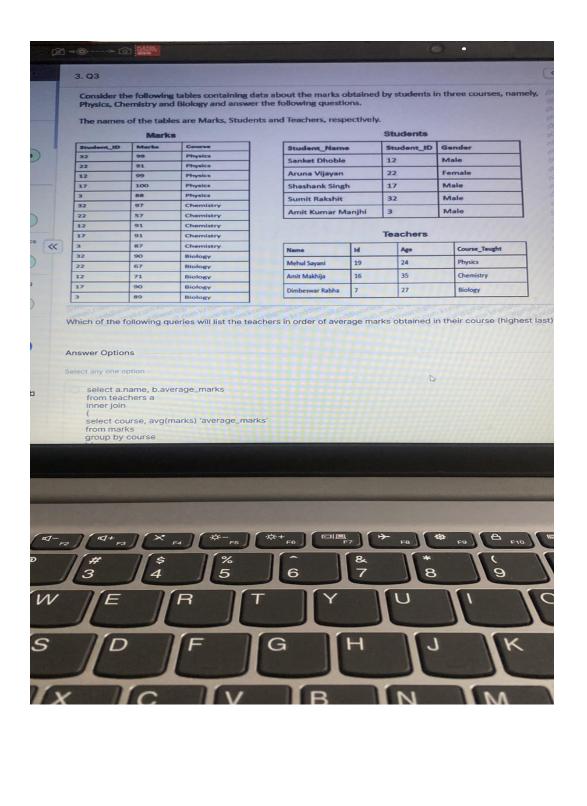
Schema		· ·
Table structure		
EMPLOYEE	L _S	
Name	Туре	Description
EMP_NO	int	Column denoting EMP_NO representing employee number
EMP_NAME	varchar(50)	Column denoting EMP_NAME representing employee name
HIRE_DATE	date	Column denoting HIRE_DATE representing date on which employee is hired
EMP_SALA	RY int	Column denoting EMP_SALARY representing salary of the employee
DEPT ID	int	Column denoting DEPT_ID representing id of



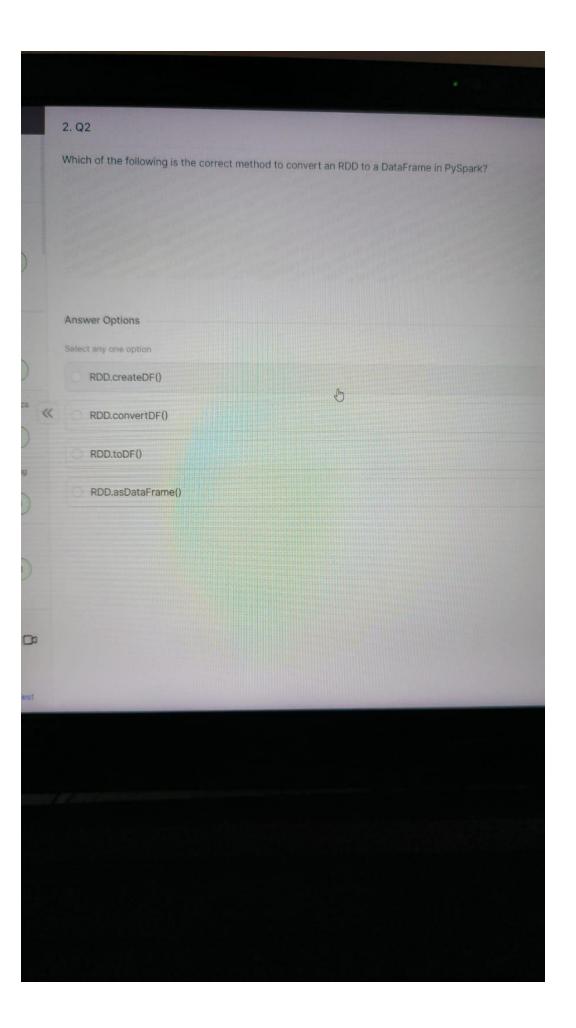
Subsampling the features used for each tree

del Selection

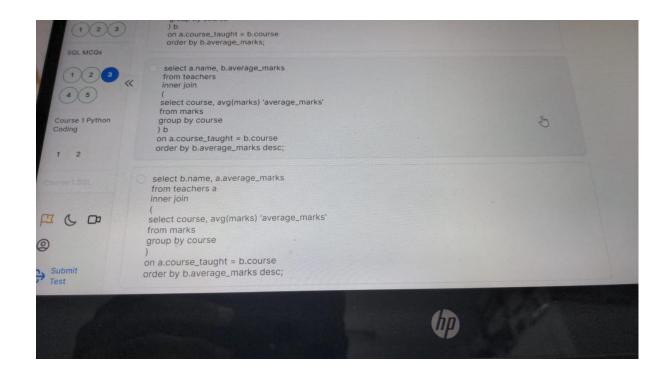
4. Q4 What does the code given below signify in PySpark? lines = sc.textFile("<path to input file, where file actually exists>") Output = lines.map(lambda x:(x.split(" ")[0],x)) **Answer Options** Select any one option Splitting the lines of a file based on the space between words and retaining only the first word out of the given Splitting the lines of a file based on the space and retaining all words except the first word out of the given line << Creating a paired RDD, with the first word as the key and the line as the value Creating a paired RDD with the first word as the value and the line as the key



5. Q5 While performing word count examples using Spark, Mr Bean wants to split every line on the basis of whitespecial special speci words out of it. What could be the best possible option to achieve the same? **Answer Options** Select any one option Мар O Filter FlatMap ReduceByKey



1. Q1 You are working on a Spark program that involves multiple operations on a large DataFrame, and you want to opi Which of the following strategies would you use to achieve this goal? **Answer Options** Select any one option Increase the number of partitions of the DataFrame to utilize more resources. 0 Use a smaller cluster to reduce the network traffic. Use a distributed cache to store the intermediate results of the DataFrame transformations. Use a smaller block size for HDFS to improve data locality. Use the reduceByKey function to merge the data in the DataFrame and reduce the number of rows.





1. Salary Analysis



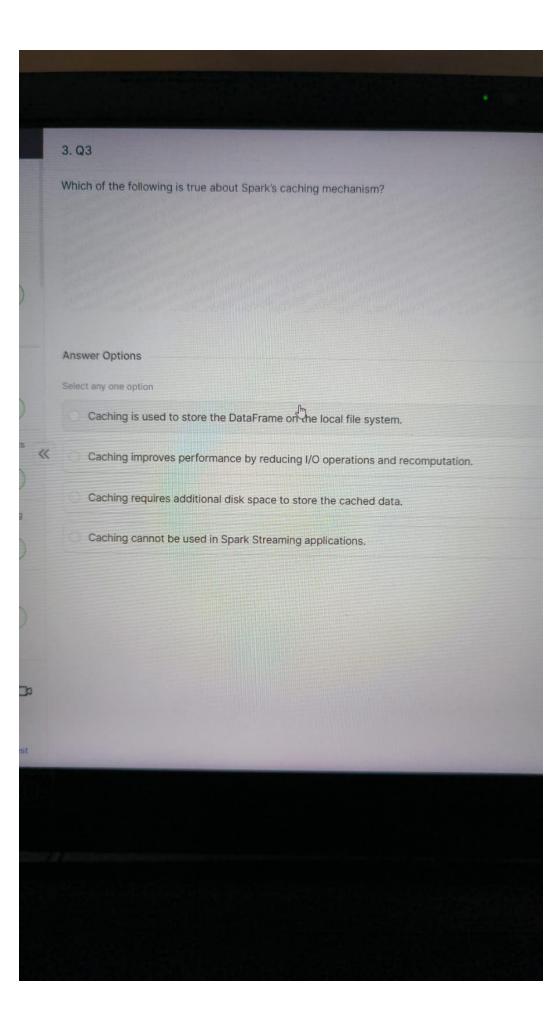
You are given a table EMPLOYEE. You want to do a comparative analysis of employee salaries using the data in this table.

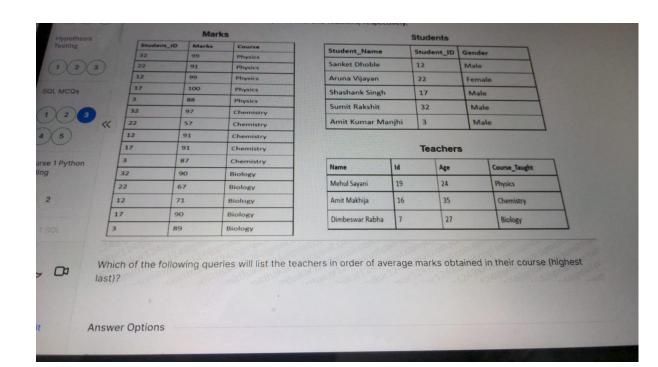
Write a MySQL query to display the EMP_NAME, EMP_SALARY and DEPT_ID employees whose EMP_SALARY is greater than the average EMP_SALARY and they have a EMP_NO greater than 103.

Notes:

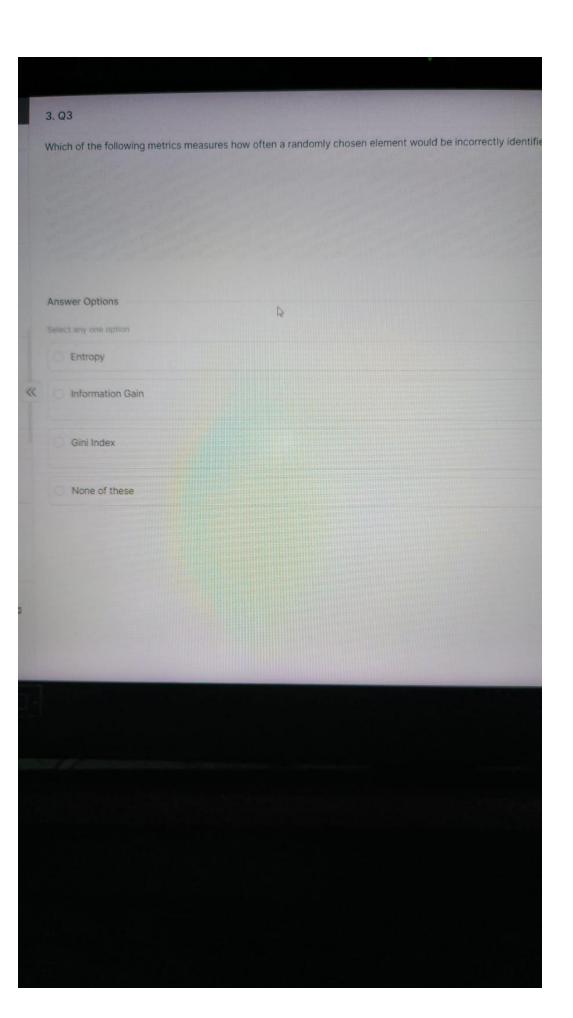
- It is given that since the schema is defined using a temporary table yo are not allowed to use queries that try to access the same table more than once in a single query to compute the final output.
- Ensure the table name is exactly the same as mentioned in the schem of the question. For instance, for a table mentioned as 'EMPLOYEE' in the schema, your code should also mention the table name as 'EMPLOYEE' and not 'employee'. or any other such variations.

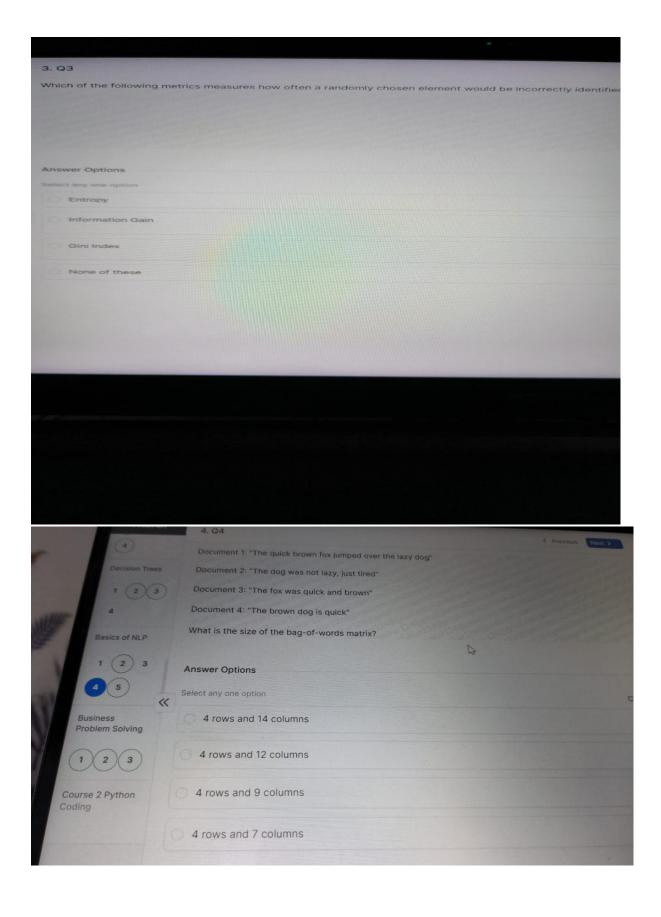
Schema		
Table structure		
EMPLOYEE		
Name	Туре	Description
EMP_NO	int	Column denoting EMP_NO representing employee number
FMP NAME	varchar(50)	Column denoting EMP_NAME





1. Salary A	nalysis			<	Previous	Next	
EMP_SALARY int				Column denoting EMP_SALARY representing salary of the employee			
DEPT_ID int		int		Column denoting DEPT_ID representing id of the department where the employee works			
Sample te	stcase 1					^	
ut							
PLOYEE							
EMP_NO	EMP_N	ÂME	HIRE_DATE	EMP_SA	LARY	DEPT.	
103	Vipul		1990-10-11	5000		34	
104	John		2020-11-11	3000		15	
105	Ram		2020-10- 11	10000		34	
tput							
Ram		10000		34			





5. Q5 ⊘ < Prev
If you use a random number generator to predict the output 0 or 1 for a binary classification problem, what will be the area of the ROC curve?
Answer Options
Select any one option 0
ð
0.5
01
● 100

