H

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Full Name: Harshit Vyas Email: vharshit362@gmail.com Milestone - 2 | LTIMindtree IGNITE Program -Test Name: Data Track (ATTEMPT: 1) Taken On: 9 Apr 2023 10:50:45 IST Time Taken: 162 min 21 sec/ 165 min Invited by: Great Learning Invited on: 9 Apr 2023 10:48:35 IST Skills Score: SQL (Advanced) 10/10 SQL (Basic) 20/20 Tags Score: Aggregation 20/20 Cloud Computing 2/2 Database 20/20 Easy 6.33/20 Functions 2/2 Hard 4/4 Linux 3/5 Medium 46/46 SQL 30/30 Simple Joins 20/20 Sorting 20/20 10/10 easy 1/1

scored in Milestone - 2 |
LTIMindtree IGNITE Program Data Track (ATTEMPT : 1) in
162 min 21 sec on 9 Apr 2023
10:50:45 IST

Recruiter/Team Comments:

No Comments.

Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review.

Question Description	Time Taken	Score	Status
Q1 Social Netwrok Analysis > DbRank	41 min 20 sec	10/ 10	Ø
Q2 Prime Partition > Coding	6 min 51 sec	2/ 10	1

Q3	Numpy Matrix Operations > Coding	47 min 42 sec	20/ 20	Ø
Q4	Sales Performance Analysis > DbRank	11 min 49 sec	20/ 20	Ø
Q5	SQL: Which one of the following > Multiple Choice	3 min 6 sec	0.33/ 1	\odot
Q6	SQL - Basic - III > Multiple Choice	36 sec	1/ 1	Ø
Q7	SQL: Normalization > Multiple Choice	1 min 29 sec	1/ 1	Ø
Q8	Cloud Computing > Multiple Choice	41 sec	1/ 1	Ø
Q9	syntax > Multiple Choice	1 min 28 sec	0/ 1	\otimes
Q10	Linux - Removing a file > Multiple Choice	25 sec	1/ 1	Ø
Q11	Bash : list all running processes > Multiple Choice	5 sec	1/ 1	Ø
Q12	SUBSTR > Multiple Choice	1 min 5 sec	0/ 1	\otimes
Q13	cloud deployement models > Multiple Choice	2 min 35 sec	1/ 1	Ø
Q14	SQL - Basic - V > Multiple Choice	23 sec	0/ 1	\otimes
Q15	AWS global infra > Multiple Choice	26 sec	1/ 1	Ø
Q16	Cloud Computing > Multiple Choice	6 sec	1/ 1	Ø
Q17	Functions - III > Multiple Choice	1 min 27 sec	1/ 1	Ø
Q18	SQL: 6th and 10th highest amount > Multiple Choice	39 sec	0/ 1	\otimes
Q19	cloud deployment > Multiple Choice	3 min 42 sec	1/ 1	Ø
Q20	SQL - Basic - IV > Multiple Choice	18 sec	1/ 1	Ø
Q21	Functions - II > Multiple Choice	29 sec	1/ 1	Ø
Q22	Numpy - 3 > Multiple Choice	21 sec	1/ 1	Ø
Q23	View - I > Multiple Choice	25 sec	0/ 1	\otimes
Q24	Linux distribution > Multiple Choice	14 sec	1/ 1	Ø
Q25	Distributed computing - II > Multiple Choice	3 min 54 sec	2/ 2	Ø
Q26	Bash Scripts > Multiple Choice	37 sec	0/2	\otimes
Q27	Price Economics - II > Multiple Choice	1 min 49 sec	2/ 2	Ø
Q28	Pricing Strategy > Multiple Choice	5 min 3 sec	2/ 2	Ø
Q29	Pandas > Multiple Choice	1 min 1 sec	2/ 2	Ø
Q30 Multi	SQL: Create a new table as same structure as the transactions table > iple Choice	1 min 48 sec	2/ 2	Ø
Q31	SQL: total no. of transactions in desc order > Multiple Choice	4 min 58 sec	2/ 2	Ø
Q32	Price Economics, Data Velocity & Computing > Multiple Choice	1 min 2 sec	2/ 2	Ø

Pricing Strategy impact > Multiple Choice

1 min 4 sec

2/2



QUESTION 1



Score 10

Social Netwrok Analysis > DbRank SQL

QUESTION DESCRIPTION

We will use the 'profiles' and 'relations' tables provided in the schema above. The problem statement is to identify mutual friends and family members between users.

Problem Statement: Find all pairs of users who are mutual friends or family members.

Find all pairs of users who are mutual friends or family members.

Hint for Solution:

- 1. Identify the columns to be selected in the query. In this case, the query needs to select the username columns from two instances of the profiles table (p1 and p2) and the type column from the relations table (r1).
- 2. Identify the tables to be used in the query. In this case, the query needs to join the profiles and relations tables twice, using the foreign key relationships between them.
- 3. Define the conditions to filter the results. In this case, the query needs to only include relationships of type "friends" or "family", and only those relationships where the type is the same in both directions.
- 4. Specify the order in which the results should be returned. In this case, the query needs to order the results by the username columns for both users.
- 5. Put all the steps together to form the complete query.

▼ Schema

	profiles					
name	type	constraint	description			
id	INT	PRIMARY KEY	Profile ID			
username	VARCHAR(255)		Profile username			

relations				
name	type	constraint		
profile_id	INT	FOREIGN KEY (profile_id => profile		
related_profile_id	INT	FOREIGN KEY (related_profile_id => pro		
type	ENUM('family','friends','acquaintances')			

▼ Sample Data Tables

profiles

id	username
1	jfarndale0
2	bsyddall1
3	cculkin2

relations					
profile_id	related_profile_id	type			
1	3	acquaintances			
2	1	family			
2	3	acquaintances			
3	2	friends			

▼ Expected Output

user1	user2	relation_type
alice	bob	friend
carol	alice	family

```
INTERVIEWER GUIDELINES
 SET SESSION GROUP_CONCAT_MAX_LEN = 1234567890;
 SET @sql = '';
 SELECT
  CONCAT( 'SELECT profile, ', GROUP CONCAT( DISTINCT CONCAT( 'MAX( IF(
 related profile = ''', related profile,
                                                              ''', type,
 NULL ) ) AS ''', related_profile, '''' ) ORDER
                                             BY related_profile ), ' FROM
 (', '
       SELECT
         p.username AS profile,
         pr.username AS related profile,
         type
         FROM
           relations r
             LEFT JOIN profiles p
              ON r.profile_id = p.id
             LEFT JOIN profiles pr
              ON r.related profile id = pr.id
         GROUP BY
           r.profile id,
           r.related profile id,
           type
         ORDER BY
          profile,
           related_profile,
           type
       ', ') t ', 'GROUP BY profile ORDER BY profile' )
   INTO @sql
```

```
FROM
     SELECT
       p.username AS profile,
       pr.username AS related profile,
       type
       FROM
         relations r
          LEFT JOIN profiles p
            ON r.profile id = p.id
           LEFT JOIN profiles pr
            ON r.related profile id = pr.id
       GROUP BY
         r.profile id,
         r.related profile id,
         type
       ORDER BY
         profile,
         related profile,
         type
    ) t;
PREPARE stmt FROM @sql;
EXECUTE stmt;
DEALLOCATE PREPARE stmt;
```

CANDIDATE ANSWER

Language used: MySQL

```
1 /*
 2 Enter your query below.
 3 Please append a semicolon ";" at the end of the query
6 -- SELECT DISTINCT P1.username AS user1, p2.username AS user2
 7 -- FROM profiles pl
 8 -- JOIN relations r1 ON pl.id = r1.profile id
9 -- JOIN profiles p2 ON p2.id = r1.related profile id
10 -- JOIN relations r2 ON p2.id = r2.profile id
11 -- JOIN profiles p3 ON p3.id = r2.related profile id
12 -- WHERE rl.type IN ('family', 'friends')
13 -- AND r2.type = r1.type
14 -- AND pl.id < p2.id
15 -- AND p2.id < p3.id
16 -- AND pl.type = p3.type
17 -- ORDER BY pl.username, p2.username;
19 SELECT pl.username AS userl, p2.username AS user2, r1.type AS relation type
20 FROM profiles pl
21 JOIN relations r1 ON pl.id = r1.profile id
22 JOIN profiles p2 ON p2.id = r1.related profile id
23 JOIN relations r2 ON r1.related profile id = r2.profile id AND r1.profile id
24 = r2.related profile id
25 WHERE rl.type IN ('friends', 'family')
26 AND rl.type = r2.type
28 ORDER BY user1 ,user2
```

Time taken: 0.05 sec



Needs Review

Score 2

Prime Partition > Coding Easy

QUESTION DESCRIPTION

Given a positive integer n, find all possible ways to partition n into two distinct prime numbers. A partition is a pair of prime numbers (p, q) such that p + q = n.

Write a Python program that takes the input in the format described below and outputs the distinct partitions of n into two prime numbers.

Input Format:

The input consists of the following lines:

- A single integer T ($1 \le T \le 100$) denoting the number of test cases.
- For each test case, a single line containing a positive integer n ($4 \le n \le 10^4$).

Output Format:

For each test case:

- Print the distinct partitions of n into two prime numbers in ascending order of the first prime number
 in the partition. Each partition should be printed on a separate line, with the prime numbers
 separated by a space.
- If there are no possible partitions for a given n, print -1.

Sample Input:

2

7

10

Sample Output:

25

3 7

There are two test cases included in this sample. The only possible partition of 7 into two prime numbers is (2, 5) for the first test case with n = 7. The possible partitions for the second test case with n = 10 are (3, 7) and (5, 5).

CANDIDATE ANSWER

The candidate did not manually submit any code. The last compiled version has been auto-submitted and the score you see below is for the auto-submitted version.

Language used: Python 3

```
# Function to check if a number is prime
def is_prime(num):
    if n < 2:
        return False
    for i in range(2, int(num**0.5) + 1):
        if n % i == 0:
            return False
        return True

# Function to find prime partitions
def prime_partitions(n):
        partitions = []</pre>
```

```
for p in range(2, n // 2 + 1):
   q = n - p
   if is_prime(p) and is_prime(q):
       partitions.append((p, q))
return partitions
#Complete the above program and run the test cases.
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	⊗ Wrong Answer	0	0.0267 sec	7.98 KB
Testcase 1	Easy	Sample case	Wrong Answer	0	0.0574 sec	8.2 KB
Testcase 2	Easy	Hidden case	Success	2	0.0522 sec	8.08 KB
Testcase 3	Easy	Hidden case	⊗ Wrong Answer	0	0.0827 sec	8.27 KB
Testcase 4	Easy	Hidden case	Wrong Answer	0	0.0453 sec	8.23 KB

No Comments

QUESTION 3



Score 20

Numpy Matrix Operations > Coding | Medium

QUESTION DESCRIPTION

Problem Description:

You are given two matrices A and B of dimensions n x m, where n represents the number of rows and m represents the number of columns. Your task is to perform the following operations using numpy:

- Matrix addition (A + B)
- Element-wise multiplication (A * B)
- Matrix multiplication (A @ B) (If not possible, print "Matrix multiplication not possible.")

Write a Python program that takes the input in the format described below and outputs the result of each operation.

Input Format:

The input consists of the following lines:

A single integer T ($1 \le T \le 10$) denoting the number of test cases.

For each test case:

- A single line containing two integers n and m ($1 \le n$, m ≤ 100), separated by a space.
- n lines, each containing m integers (separated by a space), representing the elements of matrix A.
- n lines, each containing m integers (separated by a space), representing the elements of matrix B.

Output Format:

For each test case:

- Print n lines representing the result of matrix addition (A + B).
- Print n lines representing the result of element-wise multiplication (A \ast B).
- If matrix multiplication is possible, print n lines representing the result of matrix multiplication (A @ B). Otherwise, print "Matrix multiplication not possible."

CANDIDATE ANSWER

Language used: Python 3

```
def numpy_operations(n, m, A, B):
```

```
A = np.array(A)
       B = np.array(B)
8
       add_res = A+B
9
       print_matrix(add_res)
      mul_res = A*B
       print_matrix(mul_res)
14
       if n==m:
          matmul res = A @ B
          print_matrix(matmul_res)
       else:
          print("Matrix multiplication not possible.")
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden case	Success	4	0.2136 sec	28.5 KB
Testcase 1	Easy	Sample case	Success	4	0.2548 sec	29.1 KB
Testcase 2	Easy	Hidden case	Success	4	0.5397 sec	29.1 KB
Testcase 3	Easy	Sample case	Success	4	0.2746 sec	28.8 KB
Testcase 4	Easy	Hidden case	Success	4	0.4341 sec	29.1 KB

No Comments

Sorting





Correct Answer

Score 20

Sales Performance Analysis > DbRank Database

Aggregation

Simple Joins

QUESTION DESCRIPTION

Medium

We will use the 'profiles' and 'deals' tables provided in the schema above. The problem statement for this case study is to rank profiles by their total deal amounts.

Problem Statement: Find the profiles and their total deal amounts, ranked by total deal amounts in descending order. In case of ties, order by profile ID in ascending order.

▼ Schema

profiles				
name	type	description		
id	SMALLINT	unique id, primary key		
first_name	VARCHAR(255)			
last_name	VARCHAR(255)			

deals				
name	type	description		
profile_id	SMALLINT	foreign key into profile.id		
dt	VARCHAR(19)	Deal datetime		
amount	DECIMAL(5,2)	Deal amount		

▼ Sample Data Tables

	profiles				
id	first_name	last_name	email		
1	Wallis	Treadway	wtreadway0@senate.gov		
2	Franklin	Blackston	fblackston1@parallels.com		
3	Honoria	Constant	hconstant2@umich.edu		
4	Bertine	Hillaby	bhillaby3@artisteer.com		
5	Constance	Knutsen	cknutsen4@google.ca		

	deals			
profile_id	dt	amount		
5	2022-05-21 02:44:24	49.10		
2	2022-05-22 23:26:59	46.21		
1	2022-05-23 09:56:25	58.57		
5	2022-05-28 02:38:08	27.81		
4	2022-06-04 07:16:27	22.31		
4	4 2022-06-04 14:15:03			
5	2022-06-04 15:03:10			
1	2022-06-07 02:58:06	92.84		
4	2022-06-08 05:09:52	24.41		
3	2022-06-13 03:28:52	61.55		
4	2022-06-16 15:09:39	77.70		

5	2022-06-18 16:51:32	58.79
4	2022-06-20 02:55:20	43.61
3	2022-06-22 06:52:10	10.41
1	2022-06-23 04:59:05	6.59
1	2022-06-30 16:11:02	43.07
4	2022-07-05 06:05:28	36.45
5	2022-07-12 07:49:51	14.76
4	2022-07-12 18:58:11	91.61
5	2022-07-14 00:50:45	69.61

▼ Expected Output

id	first_name	last_name	email	total_amount	ranking
5	Bertine	Hillaby	bhillaby3@artisteer.com	204.36	1
2	Wallis	Treadway	wtreadway0@senate.gov	142.50	2
8	Constance	Knutsen	cknutsen4@google.ca	80.20	3

```
INTERVIEWER GUIDELINES
  SELECT
   first_name,
   last_name,
   email,
   SUM( amount ) AS total
   FROM
     deals d
      LEFT JOIN profiles p
        ON p.id = d.profile_id
   WHERE
     MONTH(dt) = 6 AND
     YEAR(dt) = 2022
   GROUP BY
     id,
     first_name,
     last_name,
     email
   ORDER BY
    total DESC
   LIMIT 3
```

CANDIDATE ANSWER

Language used: MySQL

```
1 /*
2 Enter your query below.
```

```
3 Please append a semicolon ";" at the end of the query
 4 */
5 WITH deal_summary AS(
      SELECT p.id, p.first name, p.last name, p.email,
     COALESCE(SUM(d.amount),0)AS total_amount
     FROM profiles p
9
     LEFT JOIN deals d ON p.id = d.profile_id
     GROUP BY p.id, p.first_name, p.last_name, p.email),
     ranked_profiles AS(
       SELECT*, DENSE RANK() OVER(
             ORDER BY total_amount DESC, id
              ASC) AS ranking
             FROM deal summary
      )
      SELECT id, first name, last name, email, total amount, ranking
      FROM ranked profiles
19
      ORDER BY ranking;
```

Time taken: 0.01 sec

No Comments

QUESTION 5



Correct Answer

Score 0.33

SQL: Which one of the following > Multiple Choice Easy

QUESTION DESCRIPTION

Refer the schema below and the following question:

Schema:

	accounts					
name	type	constraint	description			
id	INT	PRIMARY KEY	Account ID			
iban	VARCHAR(255)		Account IBAN			

transactions				
name	type	constraint	description	
account_id	INT	FOREIGN KEY (account_id => accounts.id)	Account ID	
amount	VARCHAR(255)		Transaction amount	

Which SQL query would retrieve the next 5 rows from the 'accounts' table after skipping the first 10 rows?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)



SELECT * FROM accounts LIMIT 5 OFFSET 10;



SELECT * FROM accounts LIMIT 10, 5;

	 ✓ SELECT * FROM accounts OFFSET 10 ROWS FETCH NEXT 5 ROWS ONLY; SELECT * FROM accounts;
	No Comments
QUESTION 6	SQL - Basic - III > Multiple Choice Easy
Correct Answer	QUESTION DESCRIPTION
Score 1	Which SQL command is used to retrieve all data from a table?
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	⊗ SELECT *
	SELECTALL
	SELECT FROM
	SELECT TABLE
	No Comments



QUESTION DESCRIPTION

Refer the schema below and the following question:

SQL: Normalization > Multiple Choice Easy

Score 1

Schema:

	accounts				
name	type	constraint	description		
id	INT	PRIMARY KEY	Account ID		
iban	VARCHAR(255)		Account IBAN		

transactions				
name	type	constraint	description	
account_id	INT	FOREIGN KEY (account_id => accounts.id)	Account ID	
amount	VARCHAR(255)		Transaction amount	

Which normal form is represented by the given schema?

	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick) 1NF 2NF 3NF BCNF
	No Comments
QUESTION 8	Cloud Computing > Multiple Choice Cloud
Correct Answer	QUESTION DESCRIPTION
Score 1	What is considered the backbone of cloud computing?
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick) Internet service providers (ISPs) Global positioning systems (GPS) Content delivery networks (CDNs) Data centers
	No Comments
QUESTION 9	syntax > Multiple Choice Easy
Wrong Answer	QUESTION DESCRIPTION
Score 0	<pre>What is the value of x after executing the following Python code? def mystery(x, y): if x > y: return x - y else: return mystery(y - x, x) if y % x else x</pre>
	result = mystery(121, 484) What is the value of result?
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	11121
0	

	<u>242</u>
	363
	No Comments
QUESTION 10	Linux - Removing a file > Multiple Choice Linux
Correct Answer	QUESTION DESCRIPTION
Score 1	Which command is used to remove a file in Linux?
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	○ Is
	Ср
	○ mv
	No Comments
QUESTION 11	Bash: list all running processes > Multiple Choice Linux
Correct Answer	QUESTION DESCRIPTION
Score 1	Which command is used to list all currently running processes in Bash?
	CANDIDATE ANSWER
	Options: (Expected answer indicated with a tick)
	ops
	kill
	O top
	shutdown
	No Comments
QUESTION 12	SUBSTR > Multiple Choice Easy
Wrong Answer	QUESTION DESCRIPTION
Score 0	Refer the schema below and the following question:
	Schema:
	accounts
0	

name	type	constraint	description
id	INT	PRIMARY KEY	Account ID
iban	VARCHAR(255)		Account IBAN

transactions			
name	type	constraint	description
account_id	INT	FOREIGN KEY (account_id => accounts.id)	Account ID
amount	VARCHAR(255)		Transaction amount

Which SQL query would retrieve characters 5 to 8 of the 'iban' column in the 'accounts' table?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

SELECT SUBSTR(iban, 5, 4) FROM accounts;

SELECT SUBSTRING(iban, 5, 4) FROM accounts;

SELECT SUBSTR(iban, 4, 4) FROM accounts;

Both a and b

No Comments

QUESTION 13



Score 1

cloud deployement models > Multiple Choice easy

QUESTION DESCRIPTION

Which of the following cloud deployment models is best suited for organizations that require a dedicated and isolated environment for sensitive data, but also want to utilize the scalability and cost benefits of the public cloud for less sensitive workloads?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

Public cloud

Private cloud

Community Cloud

Hybrid cloud

No Comments

QUESTION 14



SQL - Basic - V > Multiple Choice

Easy

QUESTION DESCRIPTION

Score 0	Which SQL command is used to insert new data into a table and retrieve its generated ID?		
	CANDIDATE ANSWER		
	Options: (Expected answer indicated with a tick)		
	INSERT INTO		
	SELECT FROM		
	○ INSERT ID		
	No Comments		
QUESTION 15	AWS global infra > Multiple Choice Cloud		
Correct Answer	QUESTION DESCRIPTION		
Score 1	Which of the following is a key component of the AWS Global Infrastructure?		
	CANDIDATE ANSWER		
	Options: (Expected answer indicated with a tick)		
	Regions		
	Data centers		
	Availability zones		
	All of the above		
	No Comments		
QUESTION 16	Cloud Computing > Multiple Choice Cloud		
Correct Answer	QUESTION DESCRIPTION		
Score 1	Which of the following is NOT a benefit of cloud computing?		
	CANDIDATE ANSWER		
	Options: (Expected answer indicated with a tick)		
	Scalability		
	Cost savings		
	Accessibility from anywhere with an internet connection		
	Enhanced Security risks		
	No Comments		
OUESTION 47			

Functions - III > Multiple Choice Functions



Score 1

QUESTION DESCRIPTION

Consider the following code:

```
def print_info(name, age, city):
    print(f"{name} is {age} years old and lives in {city}.")

data = ["Gaurav", 28, "Delhi"]
print_info(*data)
```

What is the output of the code above?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

Error: Invalid function call

Error: Too many arguments

Gaurav is 28 years old and lives in Delhi.

*data is 28 years old and lives in London.

No Comments

QUESTION 18



Wrong Answer

Score 0

SQL: 6th and 10th highest amount > Multiple Choice Easy

QUESTION DESCRIPTION

Refer the schema below and the following question:

Schema:

accounts				
name	type	constraint	description	
id	INT	PRIMARY KEY	Account ID	
iban	VARCHAR(255)		Account IBAN	

transactions			
name	type	constraint	description
account_id	INT	FOREIGN KEY (account_id => accounts.id)	Account ID
amount	VARCHAR(255)		Transaction amount

Suppose you want to retrieve transactions with the 6th to 10th highest amounts. Which SQL query would achieve this?

CANDIE	DATE ANSWER
Options:	(Expected answer indicated with a tick)
	SELECT * FROM transactions ORDER BY amount DESC LIMIT 5 OFFSET 5;
	SELECT * FROM transactions ORDER BY amount DESC LIMIT 5, 5;
	SELECT * FROM transactions ORDER BY amount DESC OFFSET 5 ROWS FETCH NEXT 5 ROWS ONLY;
② ○	All of the above
No Con	nments
cloud	deployment > Multiple Choice
QUESTI	ON DESCRIPTION
order to	bected that SBI, a financial services company, will migrate its applications and services to the cloud in b improve scalability, agility, and cost effectiveness. An analysis of various cloud deployment models, amodels, and managed services is being conducted by the company in order to determine the best fit
for thei	r requirements. With sensitive customer data, SBI must ensure that their chosen cloud solution as high levels of security and compliance with industry regulations.
\/\/hich	cloud deployment model would be most suitable for SBI's requirements, considering their need for
	y and compliance with industry regulations?
securit	y and compliance with industry regulations? DATE ANSWER
CANDIE	
CANDIE	DATE ANSWER
CANDIE	DATE ANSWER (Expected answer indicated with a tick)
CANDIE	DATE ANSWER (Expected answer indicated with a tick) Public cloud
CANDIE	DATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud
CANDIE	DATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud Private cloud Community cloud
CANDIE Options: No Com	DATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud Private cloud Community cloud
CANDIE Options: No Com	DATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud Private cloud Community cloud
Security CANDIE Options: O No Com SQL	DATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud Private cloud Community cloud mments Basic - IV > Multiple Choice Easy
Security CANDIE Options: Ontions: No Com SQL - QUESTI Which	DATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud Private cloud Community cloud mments Basic - IV > Multiple Choice Easy ON DESCRIPTION
Security CANDIE Options: No Com SQL - QUESTI Which CANDIE	DATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud Private cloud Community cloud mments Basic - IV > Multiple Choice Easy ON DESCRIPTION SQL command is used to retrieve data from multiple tables?
Security CANDIE Options: No Com SQL - QUESTI Which CANDIE	CATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud Private cloud Community cloud ments Basic - IV > Multiple Choice Easy ON DESCRIPTION SQL command is used to retrieve data from multiple tables?
Security CANDIE Options: No Com SQL - QUESTI Which CANDIE	DATE ANSWER (Expected answer indicated with a tick) Public cloud Hybrid cloud Private cloud Community cloud ments Basic - IV > Multiple Choice Easy ON DESCRIPTION SQL command is used to retrieve data from multiple tables? DATE ANSWER (Expected answer indicated with a tick)

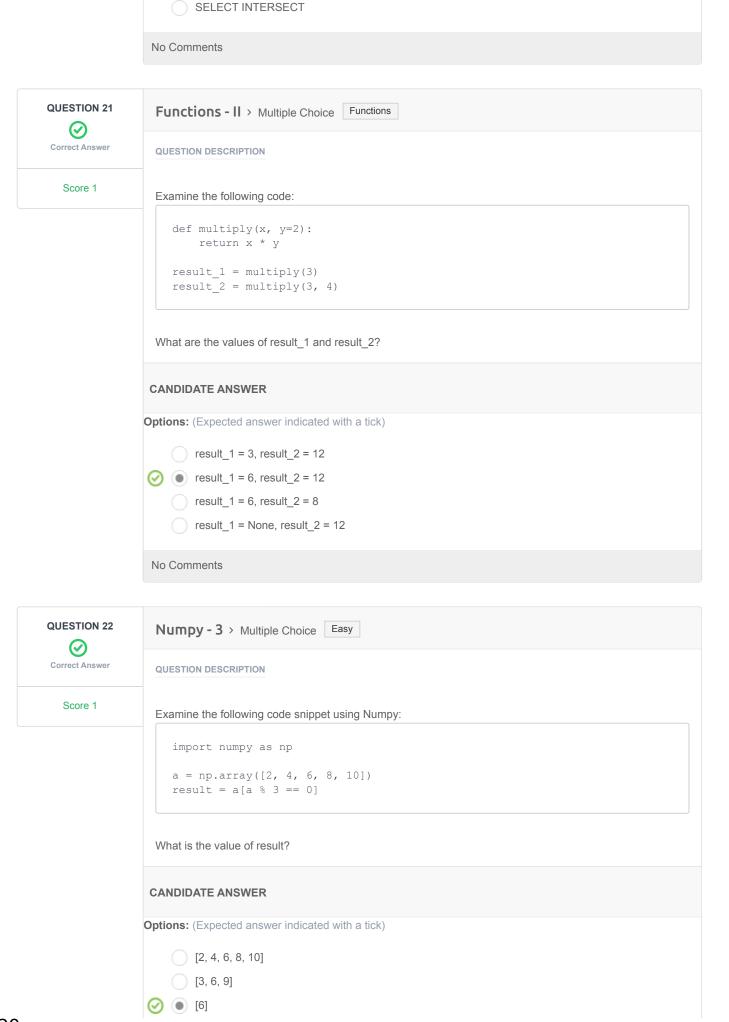
Correct Answer

Score 1

QUESTION 20

Correct Answer

Score 1



Error: Invalid array operation
No Comments



Wrong Answer

Score 0

View - I > Multiple Choice Easy

QUESTION DESCRIPTION

Refer the schema below and the following question:

Schema:

accounts				
name	type	constraint	description	
id	INT	PRIMARY KEY	Account ID	
iban	VARCHAR(255)		Account IBAN	

transactions			
name	type	constraint	description
account_id	INT	FOREIGN KEY (account_id => accounts.id)	Account ID
amount	VARCHAR(255)		Transaction amount

Which SQL statement would create a view displaying the account ID and the total transaction amount for each account?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

CREATE TABLE account_totals AS

SELECT account_id, SUM(amount) AS total_amount
FROM transactions
GROUP BY account_id;

CREATE VIEW account_totals AS

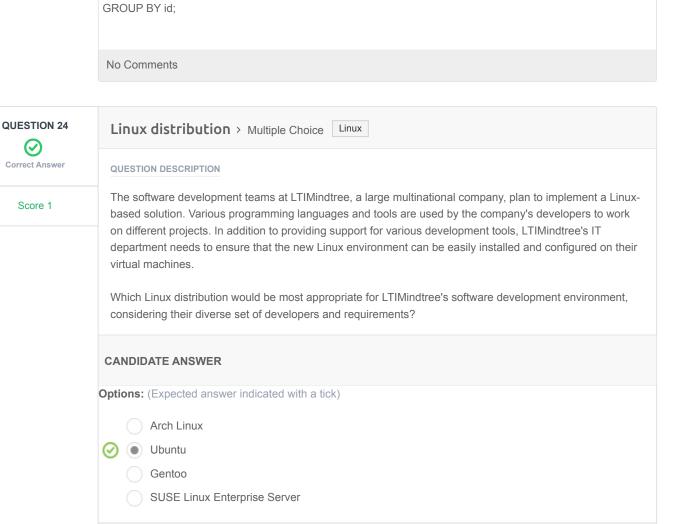
SELECT account_id, SUM(amount) AS total_amount
FROM transactions
GROUP BY account_id;

CREATE VIEW account_totals AS

SELECT account_id, COUNT(amount) AS total_amount
FROM transactions

GROUP BY account_id;

 CREATE VIEW account_totals AS SELECT id, SUM(amount) AS total_amount FROM transactions



Score 1



Score 2

Distributed computing - II > Multiple Choice Medium

QUESTION DESCRIPTION

Introduction:

No Comments

An e-commerce company, "L&T," wants to optimize its pricing strategy to maximize revenue and stay competitive in the market. The company faces challenges in handling real-time data and making quick pricing decisions. This case study aims to explore how the principles of Price Economics, Data Velocity, and Distributed Computing can be combined to enhance the company's pricing strategies.

L&T needs to understand the factors that affect pricing, such as customer willingness to pay, competitor prices, and the cost of goods sold. Based on these factors, the company can implement dynamic pricing strategies to optimize revenue.

Data Velocity:

The company needs to process high-velocity data, including real-time market trends, customer behaviors, and competitor pricing to make informed decisions. Data velocity is crucial in enabling L&T to adapt to market changes quickly and stay competitive.

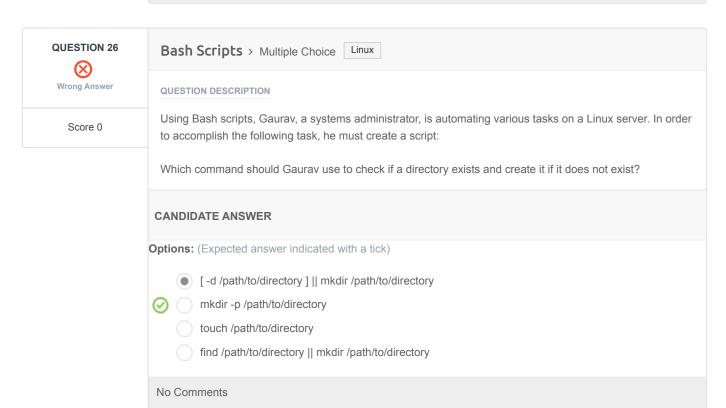
Distributed Computing:

L&T can leverage distributed computing to process vast amounts of data quickly and efficiently. By distributing the workload across multiple nodes, the company can analyze data in real-time and make swift pricing decisions.

Implementation:

L&T successfully implements a dynamic pricing system that leverages real-time data analysis through distributed computing. The system captures market trends, competitor pricing, and customer behavior to

	adjust product prices on the fly. As a result, the company achieves higher revenue and increased customer satisfaction.
	In distributed computing, what is a node?
С	CANDIDATE ANSWER
Ok	otions: (Expected answer indicated with a tick)
	A pricing strategy
	A data storage location
0	A single computer in the network
	A customer's web browser
N	No Comments







Score 2

Price Economics - II > Multiple Choice | cloud

QUESTION DESCRIPTION

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Data velocity is essential for L&T's pricing strategy because:

CANDIDATE ANSWER Options: (Expected answer indicated with a tick) It helps analyze historical trends It enables real-time data analysis It makes the website load faster It reduces server downtime

No Comments

QUESTION 28



Score 2

Pricing Strategy > Multiple Choice | cloud

QUESTION DESCRIPTION

Introduction:

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Distributed Computing:

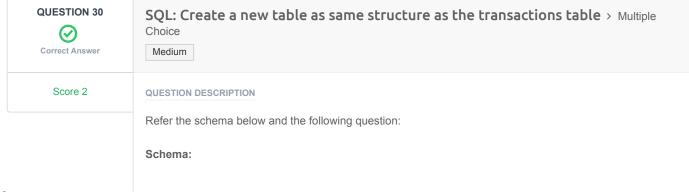
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What type of data is most important for L&T's dynamic pricing system to analyze?

CANDIDATE ANSWER
Options: (Expected answer indicated with a tick)
Historical sales data
Real-time market trends and competitor prices
Demographic information of customers
Product specifications and features
O 1 100001 0p3011100110100
No Comments
Pandas > Multiple Choice Medium
QUESTION DESCRIPTION
Examine the following code using Pandas:
import pandas as pd
data = {
'Name': ['Alice', 'Bob', 'Carol'],
'Age': [28, 32, 24], 'City': ['London', 'Paris', 'New York']
}
df = pd.DataFrame(data)
What is the shape of the dataframe df?
CANDIDATE ANSWER
Options: (Expected answer indicated with a tick)
(0.0)
(2,2)
(2,3)
(1,3)
⊘ ● (3,3)
No Comments
SQL: Create a new table as same structure as the transactions table > Multiple Choice
OHOICE



Correct Answer

Score 2

accounts				
name	type	constraint	description	
id	INT	PRIMARY KEY	Account ID	
iban	VARCHAR(255)		Account IBAN	

transactions			
name	type	constraint	description
account_id	INT	FOREIGN KEY (account_id => accounts.id)	Account ID
amount	VARCHAR(255)		Transaction amount

Which SQL statement would create a new table 'transactions_backup' with the same structure as the 'transactions' table, including the foreign key constraint?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

CREATE TABLE transactions_backup AS SELECT * FROM transactions;

- CREATE TABLE transactions_backup LIKE transactions;
- CREATE TABLE transactions_backup AS SELECT account_id, amount FROM transactions;
- CREATE TABLE transactions_backup (account_id INT, amount VARCHAR(255), FOREIGN KEY (account_id) REFERENCES accounts(id));

No Comments





Score 2

SQL: total no. of transactions in desc order > Multiple Choice Hard

QUESTION DESCRIPTION

Refer the schema below and the following question:

Schema:

accounts			
name	type	constraint	description
id	INT	PRIMARY KEY	Account ID

iban	VARCHAR(255)		Account IBAN
------	--------------	--	--------------

transactions				
name	type	constraint	description	
account_id	INT	FOREIGN KEY (account_id => accounts.id)	Account ID	
amount	VARCHAR(255)		Transaction amount	

Which SQL query would retrieve the total number of transactions for each account, ordered by the total number of transactions in descending order?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)



SELECT account_id, COUNT(*) AS transaction_count

FROM transactions

GROUP BY account_id

ORDER BY transaction_count DESC;

SELECT account_id, SUM(*) AS transaction_count FROM transactions GROUP BY account id ORDER BY transaction_count DESC;

SELECT account id, COUNT(*) AS transaction count FROM transactions GROUP BY account_id ORDER BY transaction_count ASC;

SELECT account_id, COUNT(*) AS transaction_count FROM transactions ORDER BY transaction_count DESC GROUP BY account_id;

No Comments

QUESTION 32



Correct Answer

Score 2

Price Economics, Data Velocity & Computing > Multiple Choice Cloud Computing

QUESTION DESCRIPTION

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The main goal of combining Price Economics, Data Velocity, and Distributed Computing is to:

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

Improve the company's marketing strategies

 Enhance the company's pricing strategies Increase the company's production capacity

Optimize the company's supply chain management

No Comments

QUESTION 33

 \bigcirc Correct Answer

Score 2

Functions - IV > Multiple Choice Hard

QUESTION DESCRIPTION

Analyze the following code snippet:

```
class Circle:
   def init (self, radius):
       self.radius = radius
       self.pi = 3.14159
   def calculate area(self):
       return self.pi * self.radius**2
   def calculate circumference(self):
       return 2 * self.pi * self.radius
def main():
   radius = 5
   circle = Circle(radius)
   area = circle.calculate area()
   circumference = circle.calculate_circumference()
   print(f"The area of the circle with radius {radius} is {area:.2f}")
   print(f"The circumference of the circle with radius {radius} is
{circumference:.2f}")
if __name__ == "__main__":
   main()
```

Wha	at are the values of area and circumference?
CAN	DIDATE ANSWER
Option	ns: (Expected answer indicated with a tick)
0	area = 78.53975, circumference = 31.4159area = 78.53975, circumference = 15.70795
	area = 25.0, circumference = 10.0
	area = 15.70795, circumference = 31.4159
No C	Comments



Score 2

Pricing Strategy impact > Multiple Choice | cloud

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L&T's dynamic pricing system is most likely to result in:

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick) Lower revenue due to frequent price changes Increased customer satisfaction and higher revenue Confused customers and decreased sales Constantly decreasing product prices

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