

Position - Junior Developer
Department - IT

General Info

Date -

Slot - 01

Exam Code - THITBD_01

Total Time - 50 Mins

Use all Capital Letters please

Name

Phone

Email

Part - 01

Marks

30

Obtained

Total Obtained

Part - 02

Marks

30

Obtained

/60

INSTRUCTIONS TO CANDIDATES

1. Do not open this paper until you are told to do so.
2. Examinees are allowed a **15-minute** internet access window, such as from **10:15 am to 10:30 am** during their exam. Usage beyond this timeframe is not permitted to ensure examination integrity.
3. All questions are mandatory to answer
4. Read all instructions carefully before beginning the exam.
5. Ensure that you have a stable internet connection and a quiet environment to take the exam.
6. Use the provided internet access window wisely. You are allowed 15 minutes of internet access, such as from 10:15 am to 10:30 am during the exam. Usage beyond this timeframe is not permitted to maintain examination integrity.
7. Do not open any exam materials until instructed to do so.
8. Answer all questions to the best of your ability. If a question is unclear, ask for clarification.
9. Write your answers clearly and legibly.
10. Pay attention to any specific instructions provided for each section or question.
11. Manage your time effectively to ensure you can complete all sections of the exam.
12. Only use approved materials and resources during the exam. Any unauthorized aids or materials are strictly prohibited.
13. Remain calm and focused throughout the exam. Take deep breaths if you feel stressed or overwhelmed.

Candidate

Invigilator

PHP (30 points)

1. Write PHP code to find the sum from 20 to 500. (5 point)

2. Write PHP code to show the number of all fruits in this array. (5 points)

```
$fruits=["apple","strawberry","banana","orange"];
```

3. Write PHP code to find the sum of the numbers in this array by looping. (5 points)

```
$number=[1,2,3,4,5,11,22,33,44,55,12,13,14,15,21,23,24,25,31,32,34,34,41,42,43,45,51,52,53,54,99,100,111,222,333,444,555];
```

4. Write HTML & PHP code for use this information provided to show in the table correctly. (15 points)

```
$data["class A"]=[  
    "total"=>20,  
    "join"=>17  
];
```

```
$data["class C"]=[  
    "total"=>25,  
    "join"=>25  
];
```

```
$data["class E"]=[  
    "total"=>100,  
    "join"=>80  
];
```

```
$data["class B"]=[  
    "total"=>40,  
    "join"=>10  
];
```

```
$data["class D"]=[  
    "total"=>38,  
    "join"=>28  
];
```

```
$data["class F"]=[  
    "total"=> 0,  
    "join"=>0  
];
```

Example table

| No | Class | Total | Join | Missing | Join ratio |
|----|---------|-------|------|---------|------------|
| 1. | Class A | 20 | 17 | 3 | 85.00% |
| 2. | Class B | 25 | 25 | 0 | 100.00% |
| .. | .. | .. | .. | .. | .. |
| 6. | Class F | 0 | 0 | 0 | - |

**Condition :

1. In Join ratio column, display in 2 digits decimal format.
2. If join ratio is less than 50, show percentage in red color.

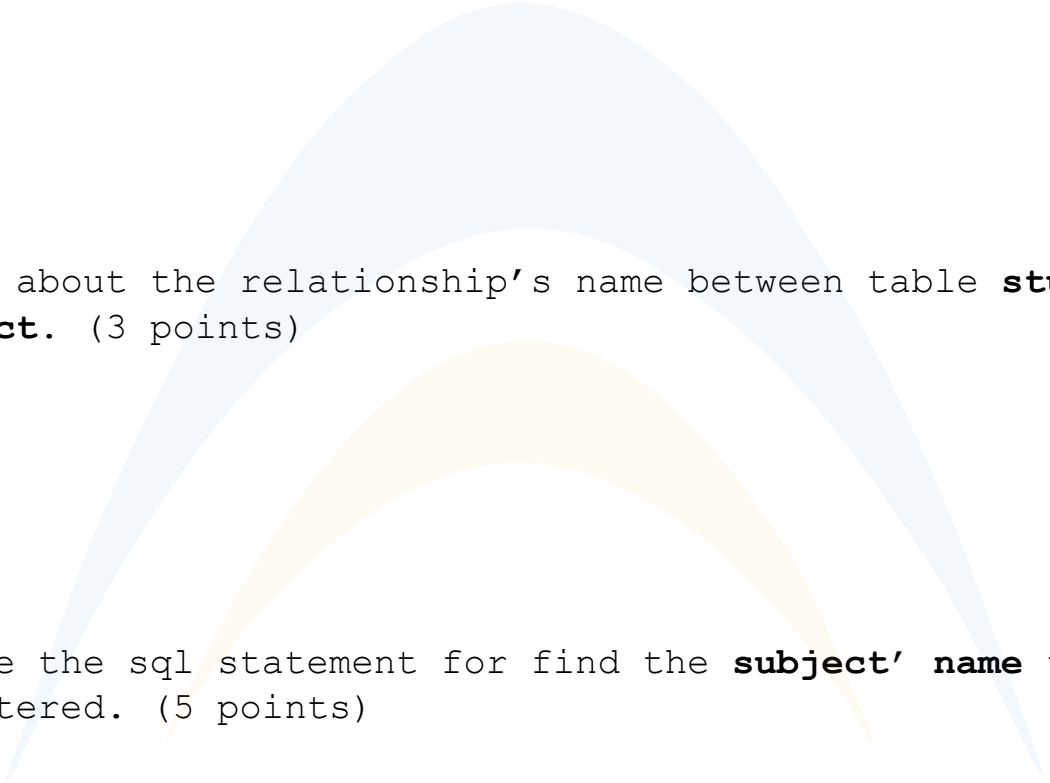
SQL (30 points)

| Student | | | |
|----------------|---------------|-------------|--------|
| studentId (PK) | studentNumber | studentName | gender |
| 1 | 0001 | Tomas | 1 |
| 2 | 0002 | Tommy | 1 |
| 3 | 0003 | Sandy | 2 |
| 4 | 0004 | Biony | 2 |
| 5 | 0005 | John | 1 |
| 6 | 0006 | Marry | 2 |
| 7 | 0007 | Michel | 1 |
| 8 | 0008 | Judy | 2 |
| 9 | 0009 | Diego | 1 |
| 10 | 0010 | Princei | 2 |

*Gender 1 is male, 2 is female

| Subject | | |
|----------------|---------------|-------------|
| subjectId (PK) | subjectNumber | subjectName |
| 1 | Mat0001 | Mathematics |
| 2 | Engl201 | English |
| 3 | His2001 | History |
| 4 | Bio3110 | Biology |
| 5 | Sci4000 | Science |

| Register | | |
|-----------------|----------------|----------------|
| registerId (PK) | subjectId (FK) | studentId (FK) |
| 1 | 1 | 2 |
| 2 | 1 | 1 |
| 3 | 1 | 3 |
| 4 | 1 | 4 |
| 5 | 2 | 6 |
| 6 | 2 | 5 |
| 7 | 2 | 8 |
| 8 | 2 | 7 |
| 9 | 3 | 7 |
| 10 | 3 | 1 |
| 11 | 3 | 2 |
| 12 | 3 | 9 |
| 13 | 4 | 10 |
| 14 | 4 | 3 |
| 15 | 4 | 4 |
| 16 | 4 | 6 |
| 17 | 5 | 5 |
| 18 | 5 | 6 |
| 19 | 5 | 9 |
| 20 | 5 | 10 |

1. Write the sql statement for find the **name** of **male** students.
(3 points)
 2. Write the sql statement for find all the student's **name** and sort alphabetically from **least to greatest**. (4 points)
 3. Tell about the relationship's name between table **student** and **subject**. (3 points)
 4. Write the sql statement for find the **subject' name** that **John** registered. (5 points)
- 

5. Write the sql statement for find the **student' name** who registered **Mathematics** (5 points)

6. Write the sql statement for find the **number of subjects** which **Marry** registered. (5 points)

7. Write the sql statement for find the **number of students** who registered **Biology**. (5 points)