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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Data Base Management System (course)

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Thank you for taking the Week 2 : Assignment 2.

Week 2 : Assignment 2

Your last recorded submission was on 2024-08-07, 21:25 IST

Due date: 2024-08-07, 23:59 IST.

1)

2 points

Course outline

About NPTEL ()

How does an NPTEL
online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

- Lecture 6 : Introduction to SQL/1 (unit? unit=27&lesson=28)

- Lecture 7 : Introduction to SQL/2 (unit? unit=27&lesson=29)
- Lecture 8 : Introduction to SQL/3 (unit? unit=27&lesson=30)
- Lecture 9 : Intermediate SQL/1 (unit? unit=27&lesson=31)
- Lecture 10 : Intermediate SQL/2 (unit? unit=27&lesson=32)
- Lecture material of Week 2 (unit?unit=27&lesson=33)
- **Quiz: Week 2 : Assignment 2 (assessment?name=162)**
- Feedback Form (unit? unit=27&lesson=193)

Week 3 ()

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Problem Solving
Session - July 2024 ()

In a particular messenger application, the instance of ChatDetails is as follows:

| ChatDetails | | |
|-------------|------------|------------|
| SenderID | ReceiverID | Total_Text |
| R001 | S001 | 1000 |
| R002 | S003 | 1200 |
| R001 | S002 | 500 |
| R003 | S004 | 700 |
| R004 | S004 | 1400 |

For the instance, the Total_Text values need to be updated to increase by 500 for those entries whose current values are less than 1000. What is the correct SQL Query for updating the current instance?

- a) `MODIFY ChatDetails Total_Text=Total_Text+500 where Total_Text<1000;`
- b) `UPDATE ChatDetails set Total_Text=Total_Text+500 where Total_Text<1000;`
- c) `UPDATE ChatDetails Total_Text=Total_Text+500 where Total_Text<1000;`
- d) `ALTER ChatDetails set Total_Text=Total_Text+500 where Total_Text<1000;`

- ☐ a
- ☒ b
- ☐ c
- ☐ d

- 2) In a particular messenger application, the instances of ChatDetails and UserDetails are as follows:

| ChatDetails | | |
|-------------|------------|------------|
| SenderID | ReceiverID | Total_Text |
| R001 | S001 | 1000 |
| R002 | S003 | 1200 |
| R001 | S002 | 500 |
| R003 | S004 | 700 |

| UserDetails | |
|-------------|---------|
| SenderID | Address |
| R001 | Kolkata |
| R002 | Delhi |
| R003 | Kolkata |

What is the output of the following SQL Query?

```
SELECT COUNT(Address) FROM ChatDetails, UserDetails GROUP BY Address;
```

- a) 4
3
- b) 4
8
- c) 4
- d) 3

- ☐ a
- ☒ b
- ☐ c
- ☐ d

3)

In a particular messenger application, the instance of UserDetails is as follows:

2 points

| UserDetails | |
|-------------|----------|
| SenderID | Address |
| R001 | Kolkata |
| R002 | Delhi |
| R003 | Kolkata |
| R004 | Kerala |
| R005 | Agartala |
| R006 | Mumbai |

Which of the options will not be present in the output generated by the SQL query:

```
SELECT Address FROM UserDetails WHERE Address LIKE '%a' OR Address LIKE 'M%' ;
```

a) Agartala

b) Kolkata

c) Mumbai

d) Delhi

☐ a

☐ b

☐ c

☒ d

4)

Which of the following statements is **incorrect**?

2 points

a) ALTER command is used to add\remove\modify rows to a relation.

b) ALTER command is used to add\remove\modify attributes to a relation.

c) DROP command is used to delete all data from a relation.

d) DROP command is used to delete a relation.

☒ a

☐ b

☒ c

5) Consider the two instances:

2 points

| ChatDetails | | |
|-------------|------------|------------|
| SenderID | ReceiverID | Total_Text |
| R001 | S001 | 1000 |
| R002 | S003 | 1200 |
| R001 | S002 | 500 |
| R003 | S004 | 700 |

| UserDetails | |
|-------------|---------|
| SenderID | Address |
| R001 | Kolkata |
| R002 | Delhi |
| R003 | Kolkata |

Which of the following operations will generate the output given below:

| SenderID | ReceiverID | Total_Text | SenderID | Address |
|----------|------------|------------|----------|---------|
| R001 | S001 | 1000 | R001 | Kolkata |
| R002 | S003 | 1200 | R002 | Delhi |
| R001 | S002 | 500 | R001 | Kolkata |
| R003 | S004 | 700 | R003 | Kolkata |

- a) ChatDetails NATURAL JOIN UserDetails
- b) ChatDetails NATURAL LEFT OUTER JOIN UserDetails
- c) ChatDetails NATURAL RIGHT OUTER JOIN UserDetails
- d) ChatDetails EQUI JOIN UserDetails ON ChatDetails.SenderID=UserDetails.SenderID

- ☒ a
- ☐ b
- ☐ c
- ☐ d

Consider the following instance of MountainDetails(MountainName,Altitude,StateName) relation.

| MountainDetails | | |
|-----------------|----------|-------------|
| MountainName | Altitude | StateName |
| Kangchenjunga | 8586 | Sikkim |
| Kabru | 7338 | Sikkim |
| Pandim | 6888 | Sikkim |
| Nanda Devi | 7816 | Uttarakhand |
| Trisul | 7120 | Uttarakhand |
| Kamet | 7756 | Uttarakhand |
| Sandakfu | 3636 | West Bengal |

What will be the output of the following query?

```
SELECT MountainName, Altitude
FROM MountainDetails md1
WHERE Altitude = (
    SELECT MAX(Altitude)
    FROM MountainDetails md2
    WHERE md1.StateName = md2.StateName);
```

a)

| MountainName | Altitude |
|---------------|----------|
| Kangchenjunga | 8586 |
| Nanda Devi | 7816 |
| Sandakfu | 3636 |

b)

| MountainName | Altitude |
|--------------|----------|
| Pandim | 6888 |
| Kamet | 7756 |
| Sandakfu | 3636 |

c)

| MountainName | Altitude |
|---------------|----------|
| Kangchenjunga | 8586 |

d)

| MountainName | Altitude |
|--------------|----------|
| Sandakfu | 3636 |

Assessment submitted.

X

- ☒ a
- ☐ b
- ☐ c
- ☐ d

- 7) Consider the following instance of MountainDetails(MountainName,Altitude,StateName) relation.

2 points

| MountainDetails | | |
|-----------------|----------|-------------|
| MountainName | Altitude | StateName |
| Kangchenjunga | 8586 | Sikkim |
| Kabru | 7338 | Sikkim |
| Pandim | 6888 | Sikkim |
| Nanda Devi | 7816 | Uttarakhand |
| Trisul | 7120 | Uttarakhand |
| Kamet | 7756 | Uttarakhand |
| Sandakfu | 3636 | West Bengal |

What will be the output of the following query?

```
SELECT MountainName, Altitude
FROM MountainDetails
WHERE Altitude > (
    SELECT Altitude
    FROM MountainDetails
    WHERE StateName = "Uttarakhand");
```

a)

| MountainName | Altitude |
|---------------|----------|
| Kangchenjunga | 8586 |
| Nanda Devi | 7816 |

b)

| MountainName | Altitude |
|---------------|----------|
| Kangchenjunga | 8586 |
| Nanda Devi | 7816 |
| Kamet | 7756 |

c)

| MountainName | Altitude |
|---------------|----------|
| Kangchenjunga | 8586 |

d)

| MountainName | Altitude |
|--------------|----------|
| Nanda Devi | 7816 |

☐ a

☐ b

- ☒ c
☐ d

8) Consider the following instance UserDetails of a messenger application:

2 points

| UserDetails | | | |
|-------------|------------|------------|---------|
| SenderID | ReceiverID | Total_Text | Address |
| R001 | S001 | 1000 | Kolkata |
| R002 | S003 | 1200 | Delhi |
| R001 | S002 | 500 | Kolkata |
| R003 | S004 | 700 | Kolkata |
| R004 | S004 | 1700 | Mumbai |

Identify the correct statement(s) to get the following output:

| UserDetails | | | |
|-------------|------------|------------|---------|
| SenderID | ReceiverID | Total_Text | Address |
| R002 | S003 | 1200 | Delhi |
| R004 | S004 | 1700 | Mumbai |

- a) `SELECT * FROM UserDetails
WHERE Address AS ('Delhi','Mumbai');`
- b) `SELECT * FROM UserDetails
WHERE Address IN ('Delhi','Mumbai');`
- c) `SELECT * FROM UserDetails
WHERE Address FOR ('Delhi','Mumbai');`
- d) `SELECT * FROM UserDetails
WHERE Address TO ('Delhi','Mumbai');`

- ☐ a
☒ b
☐ c
☐ d

- 9) Consider the following instance UserDetails of a messenger application:

| UserDetails | | | |
|-------------|------------|------------|---------|
| SenderID | ReceiverID | Total_Text | Address |
| R001 | S001 | 1000 | Kolkata |
| R002 | S003 | 1200 | Delhi |
| R001 | S002 | 500 | Kolkata |
| R003 | S004 | 700 | Kolkata |
| R004 | S004 | 1700 | Mumbai |

Identify the correct statement to create an index on SenderID and Address of UserDetails relation named as 'View_UserDetails'

- a) Create View_UserDetails
AS UserDetails(SenderID, Address);
- b) Create index View_UserDetails
AS UserDetails(SenderID, Address);
- c) Create index View_UserDetails
ON UserDetails(SenderID, Address);
- d) Create index View_UserDetails
TO UserDetails(SenderID, Address);

- ☐ a
- ☐ b
- ☒ c
- ☐ d

| UserDetails | | | |
|-------------|------------|------------|---------|
| SenderID | ReceiverID | Total_Text | Address |
| R001 | S001 | 1000 | Kolkata |
| R002 | S003 | 1200 | Delhi |
| R001 | S002 | 500 | Kolkata |
| R003 | S004 | 700 | Kolkata |
| R004 | S004 | 1700 | Mumbai |

Identify the correct statement to find the SenderID, ReceiverID, and Address of UserDetails table whose Total_Text is in between 700 and 1200.

- a)

```
SELECT SenderID, ReceiverID, Address
FROM UserDetails
WHERE Total_Text AS (700, 1200);
```
- b)

```
SELECT SenderID, ReceiverID, Address
FROM UserDetails
WHERE Total_Text IN (700, 1200);
```
- c)

```
SELECT SenderID, ReceiverID, Address
FROM UserDetails
WHERE Total_Text BETWEEN (700, 1200);
```
- d)

```
SELECT SenderID, ReceiverID, Address
FROM UserDetails
WHERE Total_Text BETWEEN 700 AND 1200;
```

- ☐ a
- ☐ b
- ☐ c
- ☒ d

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers

Assessment submitted.

X