NPTEL

**Courses » Data Base Management System**

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# Unit 4 - Week 3

## Course outline

**How to access the portal**

**Week 1**

**Week 2**

**Week 3**

- ○ Lecture 11 : Advanced SQL
- ○ Lecture 12 : Formal Relational Query Languages
- ○ Lecture 13 : Entity-Relationship Model/1
- ○ Lecture 14 : Entity-Relationship Model/2
- ○ Lecture 15 : Entity-Relationship Model/3
- ○ Week 3 Lecture Material
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- ○ Quiz : Week-3 : Assignment-3

**Week 4**

**Assignment Solution**

**Download Videos**

# Week-3 : Assignment-3

**Due date for this assignment:** 2018-09-12, 23:59 IST.

1) **Question 1**                                                    *2 points*

Identify the tools that are used for executing SQL commands from a programming language.

**Marks: 2 MSQ**

- ☐ a) JDBC
- ☐ b) OpenCV
- ☐ c) ODBC
- ☐ d) OpenGL

2)                                                                   *2 points*

## Question 2

Identify the correct Embedded SQL queries for the following:

*To find the names of all employees whose salary is between* `min_salary` *and* `max_salary`

*where* `min_salary` *and* `max_salary` *are declared in the host language.*        *Marks: 2 MS*

```
a) EXEC SQL
      DECLARE c CURSOR FOR
      --- ---
```

☐

```
b) EXEC SQL
      DECLARE c CURSOR FOR
      SELECT name
      FROM employee
      WHERE salary BETWEEN min_salary AND max_salary
   END_EXEC
```

☐

```
c) EXEC SQL
      DECLARE c CURSOR FOR
      SELECT name
      FROM employee
      WHERE salary >= :min_salary AND salary <= :max_salary
   END_EXEC
```

☐

d) EXEC SQL
       DECLARE c CURSOR FOR
       SELECT name
       FROM employee
       WHERE salary BETWEEN min_salary AND max_salary
    END_EXEC

3) **Question 3**           *2 points*

Identify the cases below in which a trigger is not used. **Marks: 2 MSQ**

  a) Loading data from a backup copy.

  b) Maintaining summary data.

  c) Replicating databases by recording changes to delta relations.

  d) Replicating updates at a remote site.

4)           *2 points*

# Question 4

Consider tables – **students** and **sports** – below:

**students**

| roll | sports_name |
|------|-------------|
| 1 | Hockey |
| 3 | Tennis |
| 3 | Hockey |
| 4 | Hockey |

**sports**

| sports_name |
|-------------|
| Hockey |
| Tennis |

What does (students ÷ sports) return?        *Marks: 2 MC*

  a) Not a valid operation.

  b)

| roll |
|------|
| 3 |

  c)

| roll | sports_name |
|------|-------------|
| 3 | Tennis |
| 3 | Hockey |

5)           *2 points*

6)           *2 points*

  a) Multi-valued attribute

  b) Derived attribute

  c) Composite attribute

  d) Key attribute

7)                                                                                                                    *2 points*

  ○
  ○
  ○
  ○

8)                                                                                                                    *2 points*

  ○ a) A:3 and B:2
  ○ b) A:1 and B:2
  ○ c) A:2 and B:3
  ○ d) A:3 and B:3

9)                                                                                                                    *2 points*

  ○ a) It is a trigger which is executed automatically upon deletion of an loan from loan relation.
  ○ b) Trigger results in the deletion of the records from the `borrower` relation.
  ○
  c) It is a trigger which is executed automatically upon deletion of the customer (loan borrower) from `borrower` relation.

  ○ d) a) and b)

10)                                                                                                                  *2 points*

  ○
  ○
  ○
  ○

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

**Submit Answers**

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