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| IT_Logo  **ITEC224**  **Database Programming**  **Spring 2013-2014** | **EASTERN MEDITERRANEAN UNIVERSITY**  **School of Computing and Technology**  **Department of Information Technology**  **Hourly Exam 🕘 75 minutes** | |  |  | | --- | --- | | 1 |  | | 2 |  | | 3 |  | | T |  | |

Student Id : …………………..……… Name :……………………………………………………… Signature: ..……………….…………….

*Answer all questions. Clearly state all assumptions you make. Absolutely no Electronic devices or dictionaries can be used. Do NOT exchange any materials with anyone! Do NOT cheat!*

1. Write an anonymous block that accepts two values from keyboard a command and an idno. Perform DML operations as described below.

* If command is ‘i’, add a new row with the given idno and 0(zero) for value.
* If the command is ‘u’ , increase the value by 1.
* If the command is ‘d’, delete the entry with the given idno.
* If the command is anything other than ‘i’,’u’ or’d’, handle this as a user defined exception.
* Handle one relevant exception and the nonpredefined oracle exception with error code ORA-00999.

Use the following table

**dummy(idno,value)**

1. Design a conceptual ERD for the following form. Draw the composition diagram as well. Show all multiplicities and keys clearly and state all of your assumptions. *(58 points)*

Form No: ………………

**EMU Leisure Services Department**

**Room Rental Reservation Form**

1. Date Requested:\_\_\_/\_\_\_/\_\_\_ Time Requested: From: \_\_\_\_\_\_\_\_\_\_\_\_\_To \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Circle Room Type Requested:

|  |  |  |  |
| --- | --- | --- | --- |
| **Community Room** | **Studio** | **Multi-purpose Room** | **Classroom** |

1. Deposit Date: \_\_\_/\_\_\_/\_\_\_ Deposit Amount: \_\_\_\_\_\_\_\_\_\_\_\_ Received By: ……………………..
2. Type of Event (Chose all that apply)

|  |  |  |  |
| --- | --- | --- | --- |
| Conference | Concert | Workshop |  |
| Seminar | Party | Exam |  |

1. Number of people expected:…………………..
2. Noise Level: High/ Low
3. Do you need security?………….
4. Contact Person: …………………………………………… Phone:………………………………….
5. Additional Requests

|  |  |  |
| --- | --- | --- |
| Equipment/Facility | Quantity | Notes |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. Additional Information: …………………………………………………………………………………………………………

……………………………………………………………………………………………………………………………

Consider the following restrictions:

* The list of event and room types may be modified if needed.
* At item 3, received By is the name of the **employee** who received the deposit. Employees are important.
* Item 6 , only one option is selected
* Item 7 is yes/no question
* For item 9, **more** “additional requests” maybe attached to this document
  + Equipment/Facility is chosen from a long list that must be flexible.

1. Write an anonymous block to print name of the top 10 employees with the highest salaries. (Hint: Sort the employees according the salary and print the first 10 employees. Use the following table:

**employees(id, name,salary)**