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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course Name:** | **Database Systems** | **Course Code:** | **CS2005** |
| **Degree Program:** | **BS(Data Science)** | **Semester:** | **Fall 2023** |
| **Date:** |  | **Total Marks:** | **15** |
| **Section:** | **BCS-5C** | **Type:** | **Quiz(2)** |
|  |  | **Name:**  **Roll no:** |  |
|  |  |  |  |

**Consider the following patient database**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| PATIENT   |  |  |  | | --- | --- | --- | | PID | P\_name | category | | 100 | Ali | Adult | | 200 | Awais | Child | | 300 | Ayesha | Child | | 400 | awais | Adult | | 500 | Ayesha | adult | | MEDICALCASE   |  |  |  | | --- | --- | --- | | CID | PID | Injury\_date | | 1 | 100 | 2020-05-15 | | 2 | 200 | 2020-05-20 | | 3 | 100 | 2020-10-15 | | 4 | 400 | 2020-05-16 | | 5 | 100 | 2020-10-19 | | 6 | 300 | 2020-10-19 | | 7 | 200 | 2019-10-19 | | CLAIM   |  |  |  | | --- | --- | --- | | CID | AMOUNT | TYPE | | 1 | 10000 | INPATIENT | | 2 | 30000 | Emergency | | 1 | 20000 | Emergency | | 3 | 25000 | INPATIENT | | 2 | 20000 | INPATIENT | |

**Part A)** Write the output of the following queries [5]

Select PID, P\_name from PATIENT

Where PID in (

Select PID from MEDICALCASE

Group by PID

Having count(\*)>1

)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | PID | P\_name | | 100 | Ali | | 200 | Awais | |

**Part B)** Write the Queries of the following questions [10]

1. Designed Correlated subquery and List the PID,Name and category that have the medicalCase on injury date ‘ 2020-10-19‘.

|  |
| --- |
| Select Select PID,Name ,category from PATIENT p  Where exits  (  Select 1 from MEDICALCASE MC  Where Injury\_date=’ 2020-10-19 ‘ and p.PID= MC.PID  ) |

1. List the patient names that have not claimed any medical case

|  |
| --- |
| Select P\_Name from Patient  Where PID in(  Select PID from MEDICALCASE MC  Where CID not in (  Select CID from CLAIM  )  Except  Select PID from MEDICALCASE MC  Where CID in (  Select CID from CLAIM  )  ) |

**Best of Luck**