STUDENT NAME: STUDENT ID:

Understand the problem statement Below

Part 1: Student Data Frame

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student Id | Course Id | Subject | Total Hr | Missing hr | Per of Miss Hr |
|  |  | Java | 60 | 30 | 30/60\*100 |
|  |  | Testing | 60 | 20 | 20/60\*100 |
|  |  | DB1 | 60 | 15 |  |
|  |  | DB2 | 60 | 10 |  |
|  |  | BIG DATA | 40 | 8 |  |
|  |  | Total | 280 | 83 | 30% |

* As seen in below table, create a data frame at least 5 Subjects, course id, subjects and Total Hr of student.
* Using R your Calculate the Missing and percentage of missing Hr of class.

Part 2: Course Data Frame

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Course No | Subjects | Total Marks | Marks Secured | Percentage |
| GZ125 | Database Design | 70 | 45.5 |  |
| JA652 | Java | 100 |  |  |
| OS564 | Operating System | 65 |  |  |
| RE565 | Requirements Gathering | 75 |  |  |

* Marks and Attendance Validations.
* Create the above data frame using R and add percentage column after creation of complete data frame.
* Also calculate percentage of each course.
* Add New column in student\_Name in student data frame.
* Merge the courser data frame and student data frame using course id.
* Add New column (Joining Date) on the final data frame.
* Select (filter) student details using the student id (Any student id).
* Get the structure and summary of the data Frame.
* Apply slice [nrows, ncol] to get student\_name and Marks\_secured.

Part 3: Condition apply

Don’t apply any conditions now because adding more changes

* If student percentage is < 60 and attendance is less, then 50% its display “re-do”
* If student percentage is > 60 and < 70 and attendance is greater than 60% display “re-take”.
* If student percentage is > 70 and attendance is greater than 60% display “NO-CONDITION”.