1. You have a table with semester – wise percent of marks. (decimal in 2 digits only)

(a). Write a SQL query which provides aggregated percentage as an output for each student.

(b). What is the max percentage obtained by any students?

(c). Write a SQL query to find out combination of top 5% students with bottom 5% students based on sequential storage order of avg percent.

(d). Create a store procedure to find out grade as per their overall percentage by passing name of the student as input. The range of percent for grade are as follows.

0-59% - unsatisfactory

60-69% - need improvement

70-79% - satisfactory

80-89% - good

90-100% - excellent

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Student ID | Student Name | Sem1 | Sem2 | Sem3 | Sem4 | Sem5 | Sem6 |
| 1 | A | 67.1 | 64.3 | 65.4 | 66.8 | 79.2 | 81.4 |
| 2 | B | 76.1 | 73.3 | 72.1 | 59 | 57 | 61 |
| 3 | C | 67 | 63.2 | 65.1 | 67.6 | 71.4 | 75.2 |
| 4 | D | 75.3 | 77.2 | 75.1 | 78.9 | 81.5 | 82 |
| 5 | E | 79.2 | 81.3 | 77.3 | 74.3 | 83.6 | 87.3 |

1. You have a table with date of delivery of multiple products.

(a). Write a SQL query which tells when each consumer received all the products.

(b). Write a SQL query which tells when each consumer received their first product.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ProductID | CustomerName | Delivery\_Date\_PC | Delivery\_Date\_AC | Delivery\_Date\_phone |
| 1 | A | 2022-10-19 | 2022-09-07 | 2022-12-29 |
| 2 | B | 2023-01-30 | 2022-12-26 | 2022-11-30 |
| 3 | C | 2022-04-20 | 2022-10-08 | 2022-12-26 |
| 4 | D | 2022-08-14 | 2022-09-17 | 2022-12-19 |
| 5 | E | 2022-12-30 | 2023-01-18 | 2022-12-13 |

1. Mr. A, CEO of a top HR firm was passing by the corridor wen he heard one of the senior manager asking his junior about the appraisal cycle near tea machine. This made her curious about those employees who joined earlier than their reporting managers. Can you help Mr. A in finding those employee who have joined before their reporting managers?

|  |  |  |  |
| --- | --- | --- | --- |
| EmpID | EmpName | ManagerID | DOJ |
| 1 | Tom | Null | 2021-02-01 |
| 2 | Ronak | 1 | 2021-07-25 |
| 3 | Shreyansh | 2 | 2021-10-31 |
| 4 | Ravi | 2 | 2021-7-17 |

1. Create a calculator to find age of the person as per DOB pass in the input parameter

(Eg. If DOB -13-01-1990 so age get calculate 34yrs and 2months)