

Assignment 3

1. Consider a RDBMS team working to store the records of a newly established school in your area. They have identified the id (7), name (50), mobile (11), guardian's email (24) and address (40) as the fields of records. Considering an overhead of 20% on data volume with initial 1200 records and a growth rate of 900 records per 6 months, **calculate** the expected volume of the database table in 4 years.
2. A company needs a program to produce payroll of the employees. Here the main module (Produce payroll) will receive a control data Valid payroll transaction from Get Valid Timesheet module. Then Get Master module receives employee ID from Produce payroll and returns employee data to it. Upon receiving employee data, Produce payroll module forward it to Calculate employee pay module and receive employee pay information. After that Produce payroll and send this information to Generating Accounting entities, Produce employee pay cheque and Informing bank for transfer module. Here Generate Accounting Entities is off page connector and Produce Employee pay cheque is ON page connection. Produce payroll can call anyone from Produce employee pay cheque and Informing bank for transfer at a time.

Design a Structure chart from the above scenario.

3. In order to get feedback from students regarding the faculties and the courses BRAC University has decided to build an app named Course and Faculty review. When you first get into the app you will find the 2 options - Rate my Faculty, See Faculty Review.
If you want to review a faculty, you need to click on the Rate my Faculty option. After that first, you will be asked to fill up a form with your information. After submitting the form you need to enter the name of the faculty and click on search. If there is a match you will see a list of faculties with that name. Otherwise, you will see a popup window saying No faculties found and a button to search again. From the list of faculties if you click on a name you will be taken to a form where you can rate and write reviews for that faculty. On submitting that form your review will be stored and you will be taken to a thank you page. And in that page you will find a button to return to the home screen. By clicking the See Faculty review option you can see the ratings of a faculty. First, you need to search the name in the same process and if there is a match you will again see a list of names. If you click on one of them you will see a screen with all the reviews and ratings for that faculty.
Draw a Windows Navigation diagram.