1) Choose an application of your choice.

2) Analyse your system and design an E-R diagram. [Details mentioned in Rubric 1.]

3) Convert your E-R diagram into Relations. [Details mentioned in Rubric 2.]

   Decide your primary keys, foreign keys, other constraints precisely.

4) Normalize the entire schema. [Details mentioned in Rubric 3]

5) Implement these tables and populate them with relevant data; using any database tool of your choice. [Basic insert, delete and modify is a must.]

   Create some useful joins.

   Show execution of constraints properly. [For example Rollno is a primary key in one table and foreign key for the other one; then deletion of any rollno record from 1st table should also be reflected in the other one.]

   Create some views and demonstrate them. [For eg for the entire university database; you may create a view that contains details of computer engineering Department.]

   [Details mentioned in Rubrics 4 and 5]

6) You may use any programming language or utilize PL/SQL extensions to show menu driven program like "press 1 for insert, 2 for delete" and so on.

7) Create at least one meaningful PL/SQL cursor, trigger and procedure for your database. Execute it and store results.

   Note: Also prepare a pdf report which will contain the above work divided into following chapters:

   1) Problem statement

   2) E-R diagram

   3) Normalization

   4) Snapshots of creation, insert ,delete, modify , views, joins. [with explanation]

   5) Snapshots of Use of PL/SQL extensions.[with explanation]