Training Institute

1. OBJECTIVES:

On completion of the case study the participant should be ability to:
- Connectivity with Oracle database
- Apply Transaction management with database

2. PRE-REQUISITES
- Database Programming- Oracle SQL, PL/SQL

3. SKILLS/CONCEPTS
- Implementation and Integration skills to solve this case

4. DURATION IN HOURS
- 3 HRS

5. SCENARIO
- Consider a Private Technical Training institute offers courses to various aspirants.   The duration of each course is 60 hrs (30 days) and daily it can offer only 2hrs of sessions.   It offers during 06.00am to 11.00 am in first shift and 04.00pm to 10pm in the second shift.   The training institute has only 2-class rooms and each class room can accommodate only 20 people for the training.   The trainees need to enroll for the desired course and pay the fee in one single payment.   At the time of registration they need to book their slot.   If the slot is not available, they may be provided an option to select other slot during the same period or they may be requested to be in queue for the next batch.   Ensure that each shift has different courses. (ie., Two same courses are not offered in same shift).

- Identify the tables, attributes and define them with relations
- Write the DB script to maintain above process.
- Implement this in the form of Procedures and functions, and Triggers.

6. DELIVARABLES
  a. Normalized Tables(up to 3NF)
  b. Table definitions with Relationships
  c. Applying Integrity constraints
  d. Defining the re-usable components
  e. Handling suitable exceptions
  f. Implement the solution with suitable Packages, Procedures, Functions, Cursors etc
  g. Implementing the Database triggers