Lab Cycle

1. Create the following tables with first field in all as the primary key .
   Student (studid, name, class, city, total marks, percentage, deptid)
   Staff (staffid, name, deptid, designation, salary,city)
   Department (deptid, name)
   Company (compid, name, city, no of employees),name of employee as not null .
   Employee (empid, name, compid, designation, salary, city) & compid as foreign key

2. Perform the following queries on tables created by first program .
   a. Insert details into all tables 3 records each
   b. Display all student details sorted on department wise.
   c. Display all employees.
   d. Display all staff details whose salary > 20000.
   e. Display student details whose percentage >80 and less than 90.

3. Perform the following queries on two tables.
   a. Display students who belong to 'MCA' department.
   b. Update the salary of all staff by 10% whose designation is 'Associate Professor'.
   c. Display all employees whose city is same as their company they work.
   d. Display the count of staffs department wise.
   e. Delete the employees whose are working in the company whose no of employees is <5.

4. Perform the following queries on one or more tables.
   a. Display all staff and student details that belong to same department.
   b. Display the staffs who earn maximum salary from each department.

c. Display staff whose salary > 25000 and city same as his/her student.
d. Display all employee details that belongs to that company having no of employees is maximum.
e. Update the employee salary by 8% who belongs to 'Ernakulam' whose designation is 'clerk' and city as same as where he works.

5. Some operations based on date.
   a. Display the current date in mm-dd-yyyy format
   b. Display the current time in 24hrs format.
   c. Display the yesterday's date as 'Monday- September 20th 2014.
   d. Display the no of days between June and August.

6. Create a cursor on following table hotel (hotelid, name, no of rooms, rate/day) .
   a. To find the room rent paid by each guest.
   b. Display all hotel details having rate/day > 500.

7. Create a trigger.
   a. Automatically add studid when a new student is inserted into student table.
   b. Insertion of a record into staff table is possible only if new salary is > old salary.

8. Create a view on employee table whose designation is 'Manager' and update the salary of such employees by 10.5% without changing the salary in employee table.

9. Create a function.
   a. Accept a studid and display his/her details.
   b. Accept a deptid and display all staff details belonging to that department.

10. Create a procedure.
    a. Display greatest of 3 numbers.
    b. Accept a designation and display all employees whose designation is that.

11. Create a package with a function and a procedure. Procedure should return whether a given number is palindrome or not. Function should display total marks of 'MCA' students.

12. Create PL/SQL program.
    a. Display the sum of first n natural numbers
    b. Display the prime numbers present in any range.
    c. Display staff details whose salary >25000 and belongs to 'MCA' department
    d. Display the details of an employee from employee table by considering salary as basic salary and find hra as 3% of salary, da as 10% and pf as 15%. Display the net pay along with employee details.

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HOD