1. For college database execute following queries:

Department (dept_Id ,dept_name, budget)
Teacher(Teacher_id, name, salary, dept_id)
Course (course_id title, credits, dept_id)
Teaches (course_id, Teacher_id)

- Find the names of all teachers in Computer dept who have salary greater than 70000.
- Find the names of teachers who are working in IT dept.
- Create a view to find out name and salary of teacher.
- Find the names of all teachers whose salary is greater than at least one teacher in Mechanical dept.
- 2. For Employee database execute following queries:

Department (dept_name, building, budget)
Employee(Emp_id, name, salary, dept_name)
Project(proj_id, title, dept_name)
Workson (emp_id, proj_id)

- Create a view to find employee name and project title for employee in IT department.
- Find the names of all departments whose name includes substring "p".
- List the entire employee records in descending order.
- Find the names of all employees whose salary is greater than at least one employee in production dept.

3. For University database execute following queries:

Department (dept_name, building, budget)
Instructor (inst_id, name, salary, dept_name)
Course (course_id, title, credits, dept_name)
Teaches (course_id, inst_id)

- Find the average salary of the instructors who are in music dept.
- Find the average salary in each dept.
- Find out department name with average salary in each department where average salary is greater than 40000.
- Find the names of all instructors whose salary is greater than at least one instructor in biology dept.

4. For banking database execute following queries:

Branch(branch_name, building, asset)

Customer(cust_id, name,address)

Account(acc number, balance, branch name)

Depositor(acc number, inst id)

Loan(Loan no, amount)

Borrower(Loan_no, cust_id)

- Find the number of all accounts who have branch name as pune.
- Find the names of all customer who have saving account in bank.
- Create a view to find all customers who have account and loan in the bank
- Show the branch name and number of account in that branch
- 5. Write a PL/SQL block to calculate the grade of minimum 10 students.
- 6. Write a PL/SQL block to calculate the average marks of students using cursor.
- 7. Write a procedure
 - To add new employee into employee table
 - Which will return number of employees working in the department. Pass the dept no.
- 8. Write a function
 - that accepts employee number and return the salary status as low, high, based on his salary.
 - which will show the level of the customer whether platinum, gold or silver.
- 9. Write a function to find
 - Sum of digit of the number
 - Reverse of the given number.
- 10. Create database and Implement trigger
- 11. For student database execute following queries:
 - Find the record of the students who has got the highest marks in DBMS subject using successive queries.
 - Find the average result of TOC subject.
 - Find the minimum marks in CNT subject.
 - Find the total number of students who scored first class.
- 12. Implement map reduce operation

- 13. Create college database (using mongodb)
 - Find the list of teachers in IT dept.
 - Find the list of teachers who have salary greater than 40000.
 - Find the teacher's list in descending order using teacher id.
 - Give the increment of rs.20000 who has salary less than 30000.
- 14. Create library database (using mongodb)
 - List the books of computer subjects.
 - List the books whose publication is "Pearson"
 - List the number of journals.
 - List the number of books which price is less than rs.500.
- 15. Implement two phase commit protocol for bank transaction.
- 16. Create Simple object and array object for Library.
- 17. Create Simple object and array object for employee.
- 18. Encode JSON object for student details using JAVA.

Encode JSON object for staff details using two objects using JAVA.

- 19. Implement K-means clustering algorithm for one dimensional data sets using PHP/Java
- 20. Design and implement Hospital management application using PHP/java and mongodb.
 - Add
 - Delete
 - Search
 - Display
- 21. Design and implement customer registration details using PHP/java and mongodb.
 - Add
 - Delete
 - Search
 - Display