

### Assignment 1

1. Describe architecture of RDBMS. Also how RDBMS supports integrity and atomicity.
2. What are the different types of languages that are available in the **DBMS**?
3. What do you mean by data model? Explain various types of data model.
4. Explain the concept of partial and complete participation in ER diagram.
5. Write SQL and relational algebra queries for schema  
emp(emp\_id,name,address,age)  
Job (job\_id, emp\_id,job\_type)
  - a. List all employees with id 123 and 234.
  - b. List name of employees having age less than 40 and belongs to “Dehradun”.
  - c. Calculate average and maximum age from emp.(give sql query only)
  - d. Display job\_id and emp\_name for employees working in “medical” department.