

**LAGOS CITY POLYTECHNIC, IKEJA**  
**SCHOOL OF ENGINEERING AND APPLIED SCIENCE**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**2013/2014 FIRST SEMESTER EXAMINATION**

<p><b>COURSE TITLE: DATABASE DESIGN</b>  <b>COURSE CODE: COM 312</b>  <b>COURSE CODE: COM 312</b>  <b>FOR WHOM: HND YR II CS</b>  <b>NO OF STUDENT: ANY</b></p>	<p><b>NO OF QUESTIONS : 7</b>  <b>TIME ALLOWED: 2 HRS</b>  <b>EXAMINER:</b>  <b>INSTRUCTIONS: ANSWER FIVE</b></p>
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**QUESTIONS**

1. (a) List 5 examples of DBMS  
 (b) Distinguish between the following  
 (i) Database and database system  
 (ii) Integrated and shared data  
 (c) Why is database centrally located?
2. (a) With the aid of a suitable diagram, explain the following relational operations:  
 (i) Union (ii) Intersection (iii) Difference  
 (iv) Product (v) Projection  
 (b) What is database design?
3. (a) What is database? Enumerate five (5) attributes of database.  
 (b) Explain what you understand by the term Database Management System?  
 Enumerate five (5) functions of the DBMS.
4. Design a table named CUSTOMER, using the following details:  
 Account number character 6  
 Customer name character 20  
 Address character 20  
 Loan-limits number 8, 20 2  
 Loan number 6, 2 2  
 (i) insert five (5) records into the created table  
 (ii) alter the table and add primary key constraints to the account number  
 (iii) display all records created.
5. (a) Define Database Design explicitly.  
 (b) Use the SQL statement to create table containing the following information:  
 Employee number character 10  
 Employee age (years) numeric 10 3  
 Employee name numeric 3 40  
 Employee name character 40

