



COMPUTER ENGINEERING DEPARTMENT

Vision: “To contribute to society through excellence in scientific & knowledgeable based education of computer science professional”.

Mission:

- To transform students into technically components, socially responsible & ethical computer science professionals
- To promote a creative teaching-learning process that will strive for academic excellence in the field of computer engineering.
- To enhance the technical expertise of students through workshop & industry-institute interaction

Subject Name: Database Management System (22319)

Date :-

Assignment No :-I /

Course Outcome:

- a.)Design a normalized database on given data..

Unit 1:-Database System Concept

1. Define i)Instance ii)schema iii)Database iv)DBMS v)Data CO301.1 (2M)
2. State the difference between hierarchical and network model.(4 points) CO301.1 (4M)
3. Explain strong & weak entity with ex. CO301.1 (2M)
4. Explain advantages of DBMS over file system & List application of DBMS. CO301.1 (4M)
5. Explain 2-tier & 3 tier architecture in DBMS with dig. CO301.1 (2 OR 4M)
6. Explain Data independence or abstraction in DBMS. CO301.1 (4M)
7. Explain the overall structure of DBMS. CO301.1 (4M)
8. Explain the components used in the ER diagram. CO301.1 (6M)
9. Draw ER diagram for library management system and show strong and weak entity. CO301.1 (6M)
10. Draw Three schema architectures and explain each layer in short. CO301.1 (4M)

Name of course coordinator: - Miss. Komal A Jadhav.

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Subject Name: Database Management System (22319)

Date :-

Assignment No :-II /

Course Outcome:

- Design a normalized database on given data.
- Create & manage databases using SQL commands.

Unit 2:-Relational Data Model

1. Define i) Instance ii) Record ii) Field iii) Candidate Key iv) Super key CO301.2(2M)
2. Define primary key and foreign key with ex. CO301.2 (4M)
3. Explain any two E.F.Codd Rules. CO301.2 (2M)
4. Define Normalization and explain each type. CO301.2 (4M)
5. Explain all DDL commands with syntax. CO301.2 (2 OR 4M)
6. Explain all DML commands with syntax. CO301.2 (4M)
7. Explain all DCL commands with syntax. CO301.2 (4M)
8. Explain all TCL commands with syntax.. CO301.2 (4M)
9. Explain all SQL operators with syntax and one ex. CO301.2 (6M)
10. CREATE TABLE FOR EMPLOYEE and DEPARTMENT with following schema. Schema:-Emp(Emp_no as primary key, Ename, salary, phno); Dept(deptno primary key, empno foreign key, deptname, location);

Emp_no	Ename	Salary	Phno
1	RATNA	10000	81555489988
2	RAVINA	20000	88555SE656566

Dept_no	Emp_no	Deptname	Location
1	1	ACCOUNT	MUMBAI
2	1	CLERK	PUNE
3	3	MANAGEMENT	MUMBAI

- i) Write syntax to create an Emp & Department table?
- ii) Insert above values in the respective table using DML command?
- iii) Display all employees from the Emp table?
- iv) Display EMP Whos SALARY IS GREATER THAN 10000?
- v) Display department whos location is pune?
- vi) Display Department whos location is Mumbai and deptname is account?
- vii) increment salary of emp by 0.20 whos id is 2?
- viii) Perform union operator on both the tables?
- ix) Find out the employee whose name starts with R?
- x) Find out the employee whose second last letter is N?
- xi) Find out the employee whose name contains A?

12. Write a syntax for all integrity constraints and reason to use?

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Name of Programme: - CO

Name of Course: - Database Management System (SEM-III)

Course Outcomes:-

)Design normalized database on given data.

b)create and manage Database using SQL commands.

Assignment –III

2 Marks Questions.

1. State any two numeric and arithmetic functions with ex. C301.3
2. Write syntax for create and drop index. C301.3
3. Consider the schema customer(cust_id,cust_name,cust_add,cust_city)
i)Create a view on customer(Cust_id,Cust_name)Where cust_city is pune
ii)Create sequences on cust_id.. C301.3
4. Explain any four aggregate functions. C301.3
5. Explain GROUP BY and order by with example? C301.3
6. Explain all types of joins with help of diagram and syntax? C301.3
7. Write a syntax to create and drop synonyms ?C301.3
8. Write Syntax to create,drop VIEW?Explain What is VIEW?C301.3

4 Marks Questions.

1. Consider following schema

Emp(emp_no,dept_no,ename,salary,designation,join_date,DOB,dept_location)

- i) Display employee name & number in descending order? C301.3
- ii) Display employee name and emp_no who designation is manager.
- iii) Display total salary of all employee.
- iv) Display name of employee who earn minimum salary. v) Display count of each employee according to the department.

2. Create a sequence

- i) Sequence name is seq_1 start with 1, increment with 1, minimum value is 1, and maximum value is 20
- ii) Drop sequences.

3. Explain four Arithmetic functions and index with ex? C301.3

4. Write output for following Query C301.3

Stud id	Stud name	Fees
1	Ram	10000
2	shreya	20000
3	harsh	50000

(student table)

Course id	Course name	Stud id
1	JAVA	1
2	PYTHON	1
3	C	2
4	C++	4
5	DBMS	2
6	JAVA	2

(course table)

- i) Apply inner join on above table and write Query and output for the same
- ii) write a query to display the count of courses according to course-name.
- iii) Write a query to display total course fees for each student.
- iii) Write a query to display total course fees for each student who course fees is greater than 50000.
- iv) Write a query to sort the course according to their fees in desc order.

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Name of Programme: - CO

Name of Course: - Database Management System (SEM-III)

Course Outcomes:-

- a) Write PL/SQL code for given database
- b) Apply triggers on the database and also create procedure and function according to condition.
- c) Apply security and confidentiality on a given database.

Assignment –IV

2 Marks Questions.

1. State any four PL-SQL datatypes?
2. State any four advantages of the function in PL-SQL?
3. Explain any one control structure in PL-SQL with diagram?
4. Draw Block structure of PL-SQL?

4 Marks Questions.

1. Write a pl-sql code to print an even number using a for loop?
2. Write PL-SQL program which accepts the cust_id from user if user entered id is invalid then exception invalid id will be raised.
3. List the types of triggers and how to create and delete trigger?
4. Write a pl-sql code to print an even number using a for loop?
5. Write PL-SQL program which accepts the cust_id from user if user entered id is invalid then exception invalid id will be raised.
6. List the types of triggers and how to create and delete trigger?

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Name of Programme: - CO

Name of Course: - Database Management

SystemCourse Outcomes:-

e)Apply security and confidentiality on a given database.

Assignment –V

1.Describe Commit,Rollback in detail with

ex?2.Explain ACID properties?

3.Write syntax to create a user and grant privilege to the

user?4.Explain transaction state diagram?

5.Write SQL command for

i)Grant create,insert,select,update,delete, drop privilege to

‘rahul’ .ii)Remove select privilege from ‘rahul’.

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