DBMS ASSIGNMENT 1

- 1. Explain Database, DBMS, and Metadata.
- 2. Explain different types of Databases.
- 3. What are the advantages of DBMS?
- 4. Explain the DB System environment.
- 5. List the limitations/disadvantages of DBMS.
- 6. What are the problems with File system data management?
- 7. List and explain the functions and capabilities of DBMS.
- 8. Explain in detail the components of the DB system environment.
- 9. List and explain various DML, and DDL commands in SQL.
- 10. List and explain SQL Logical Operators.
- 11. Explain Special Operators.
- 12. What is the use of foreign key constraint with an example

DBMS ASSIGNMENT 3

- 1. List out Codd's Relational Database rules.
- 2. Explain 1NF, 2NF. Database Management System
- 3. Explain 3NF and BCNF
- 4. What is Primary Key? Explain some desirable Primary Key characteristics.
- 5. Explain the usage of the Composite Primary key with an example.
- 6. What is Normalization? Explain it.
- 7. What is Denormalization?
- 8. Define Functional Dependency.
- 9. Define the term Data Dictionary.
- 10. Define data redundancy

DBMS ASSIGNMENT 2

- 1. Describe about Data Models and explain E-R model.
- 2. Define Instance and Domain?
- 3. What is an Entity? Explain different type of Entities.
- 4. What is an Attribute? Explain different types of Attributes.
- 5. Explain Recursive Relationship with example.
- 6. Explain Degree of Relationship and its types
- 7. What are the basic constructs of ER model?
- 8. Distinguish between simple and composite attributes.
- 9. Explain Order by, Group by and Having Clauses with example.
- 10. What are Views in SQL? Give an example
- 11. Explain Aggregate functions with examples
- 12. Explain in brief about Subqueries and Correlated queries.
- 13. What is a Join? Discuss about various joins used in SQL.
- 14. List and explain SQL Relational Set Operators.
- 15. What is the use of DISTINCT keyword in SQL

New_Assignment_ON_SQL

Set A:

Employee (Empid-primary key)

Empid	EmpName	Department	ContactNo	Emailld	EmpHeadId
101	Isha	E-101	1234567890	isha@gmail.com	105
102	Priya	E-104	1234567890	priya@yahoo.com	103
103	Neha	E-101	1234567890	neha@gmail.com	101
104	Rahul	E-102	1234567890	rahul@yahoo.com	105
105	Abhishek	E-101	1234567890	abhishek@gmail.com	102

EmpDept(Primary Key- DeptID, Foreign key-DeptHead, references Empid)

DeptId	DeptName	Dept_off	DeptHead
E-101	HR	Monday	105
E-102	Development	Tuesday	101
E-103	Hous Keeping	Saturday	103
E-104	Sales	Sunday	104
E-105	Purchage	Tuesday	104

EmpSalary(EmpId foreign key)

Empld	Salary	IsPermanent
101	2000	Yes
102	10000	Yes
103	5000	No
104	1900	Yes
105	2300	No

Country(Primary key-Cid)

cid	cname
c-1	India
c-2	USA
c-3	China
c-4	Pakistan

Project(Primary key- ProjectID)

ProjectId	Duration
p-1	23
p-2	15
p-3	45
p-4	2
p-5	30

c-5 Russia	
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ClientTable(Primary key ClientId, Foreign Key Cid)

ClientId	ClientName	cid
cl-1	ABC Group	c-1
cl-2	PQR	c-1
cl-3	XYZ	c-2
cl-4	tech altum	c-3
cl-5	mnp	c-5

EmpProject(empid int foreign key references employee(empid), projectid varchar(50) foreign key references project(projectid),

Empld	ProjectId	ClientID	StartYear	EndYear
101	p-1	CI-1	2010	2010
102	p-2	CI-2	2010	2012
103	p-1	CI-3	2013	
104	p-4	CI-1	2014	2015
105	p-4	CI-5	2015	

Queries:

- 1. Select the detail of the employee whose name start with P.
- 2. How many permanent candidate take salary more than 5000.
- Select the detail of employee whose emailed is in gmail.
- 4. Select the details of the employee who work either for department E-104 or E-102.
- 5. What is the department name for DeptID E-102?
- 6. What is total salarythat is paid to permanent employees?
- 7. List name of all employees whose name ends with a.
- 8. List the number of department of employees in each project.
- 9. How many project started in year 2010.
- 10. How many project started and finished in the same year.
- 11. select the name of the employee whose name's 3rd charactor is 'h'.
- 12. Select the department name of the company which is assigned to the employee whose employee id is grater 103.

- 13. Select the name of the employee who is working under Abhishek.
- 14. Select the name of the employee who is department head of HR.
- 15. Select the name of the employee head who is permanent.
- 16. Select the name and email of the Dept Head who is not Permanent.
- 17. Select the employee whose department off is Monday
- 18. Select the Indian clients details.

select the details of all employees working in the development department.

19. Show the details of 2nd highest salaried person.

Set B:

Create execute the next set of questions

Supplier(Sid, Sname, Address)

Parts(Pid, Pname, Color)

Catalog(Pid,Sid,Cost)

- 1. Find name of supplier who supply some green part
- 2. Find name of supplier who supply some red or green part
- 3. Find the sid of supplier who supply some red or green part or are at'21 Rohini Delhi'
- 4. Find the name of the supplier who supply some red or some green parts'
- 5. Find sid's of suppliers who supply every green part.
- 6. Find the pid's of parts supplied by at least two different suppliers.