

BRAIN INTERNATIONAL SCHOOL

SUBJECT: I.P.

CLASS-XII

April,2021

Unit 2 Database Query using SQL:

Q1. Define and explain with example:-

- i.Explain DBMS and any two advantage of Database System.
- ii.Referential Integrity Constraint
- iii.What is Cardinality and degree?
- iv.What do you mean by tuples and domain?

Q2. Difference between:-

- | | |
|------------------------------|---|
| i.Primary key Vs Foreign key | iv. NOT NULL constraint and UNIQUE constraint |
| ii.Char Vs Varchar datatypes | v. Candidate key Vs Alternate key |
| iii.DDL Vs DML | vi. DELETE query and DROP query |
- Q3. Given the details for the table EMPLOYEE, write the queries for the following problems:-

Column Name	EmpID	EmpName	EmpAddress	EmpPhone	EmpSal	DeptID
Key Type	PRIMARY					Foreign
Nulls/Unique		NOT NULL				
Fk Table						Department
Fk column						DeptId
Datatype	NUMBER	VARCHAR	VARCHAR	VARCHAR	NUMBER	VARCHAR
Length	6	20	30	10	9,2	2

- a. Create the table EMPLOYEE on the basis of the above information with all constraints.
- b. Add a new column Gender to the table EMPLOYEE with data type as Varchar and size
- c. Insert a new record to the table EMPLOYEE with the details :-
(101,"MANAV","KOLKATA",912345678, 50000, 10)
- a. Delete the entire table EMPLOYEE from the database
- b. To open the database named MYDB
- a. To increase the Empsal by 1000 for every record in employee table

Q4. Consider the table EMP as given below and answer the following. Write SQL query for Q (i) to (viii) and show the output for (ix) to (xi):

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
8369	SMITH	CLERK	8902	1990-12-18	800	NULL	20
8499	ANYA	SALESMAN	8698	1991-02-20	1600	300	30
8521	SETH	SALESMAN	8698	1991-02-22	1250	500	30
8566	MAHADEVAN	MANAGER	8839	1991-04-02	2985	NULL	20
8654	MOMIN	SALESMAN	8698	1991-09-28	1250	1400	30
8698	BINA	MANAGER	8839	1991-05-01	2850	NULL	30
8882	SHIAVNSH	MANAGER	8839	1991-06-09	2450	NULL	10
8888	SCOTT	ANALYST	8566	1992-12-09	3000	NULL	20
8839	AMIR	PRESIDENT	NULL	1991-11-18	5000	NULL	10
8844	KULDEEP	SALESMAN	8698	1991-09-08	1500	0	30
8886	ANOOP	CLERK	8888	1993-01-12	1100	NULL	20
8900	JATIN	CLERK	8698	1991-12-03	950	NULL	30
8902	FAKIR	ANALYST	8566	1991-12-03	3000	NULL	20

8934	MITA	CLERK	8882	1992-01-23	1300	NULL	10
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QUERY

- i. Display all the records from the employee table.
- ii. Display Ename, sal, deptno who are not getting commission from table emp.
- iii. List the details of employees who earn more commission than their salaries.
- iv. Display employee number, name, sal and annual salary. Give column alias to annual salary (sal*12).
- v. How many job types are offered to employees.
- vi. List the details of all employees whose salary is between 2500 and 3500.
- vii. To display the name of the employees whose name contains 'A' as a third letter.
- viii. Display a report of the employee table with all records sorted in descending order.

OUTPUT

- ix. Select ename, job, deptno from emp whose job = 'SALESMAN';
 - i. Select * from emp where ename like 'M%';
 - i. Select sal from emp order by sal;
 - ii. Select ename, hiredate, sal from emp where sal between 2000 and 3000;