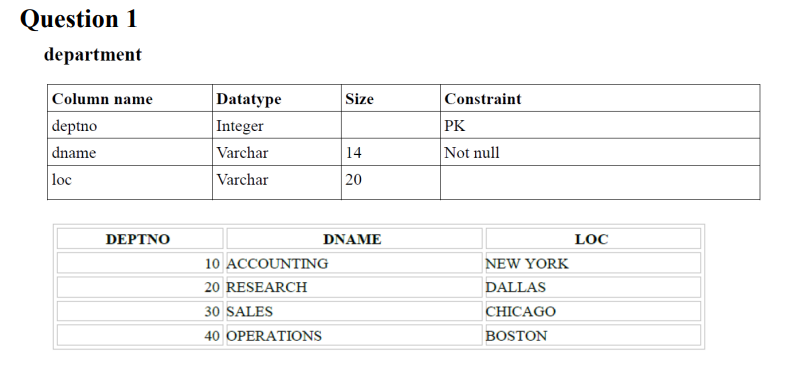
**22AIE303 DBMS**

**LABSHEET 2**

Date:23/9/2024

**Abhiram A S**

****

****

**CREATE TABLE department(**

**deptno INT PRIMARY KEY,**

**dname VARCHAR(14) NOT NULL,**

**loc VARCHAR (20)**

**);**

****

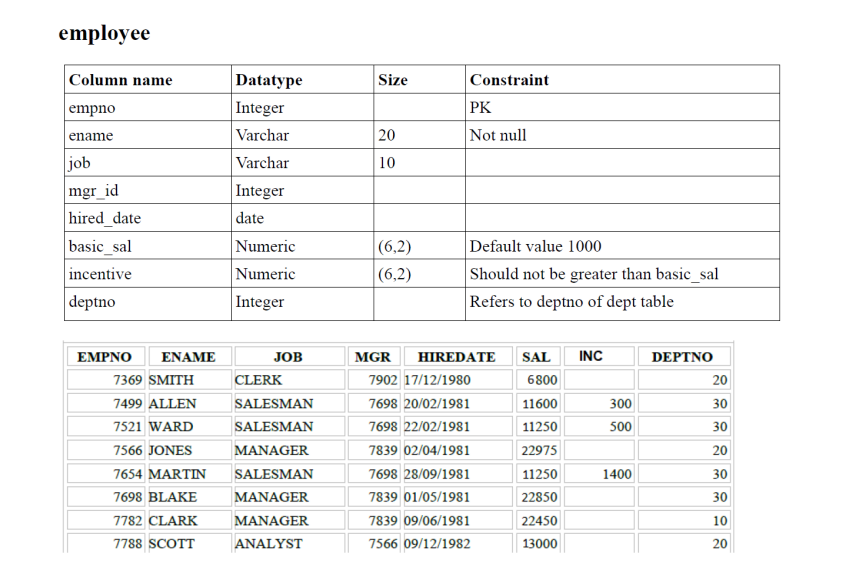
**INSERT INTO department VALUES**

**(10 , 'ACCOUNTING' , 'NEW YORK'),**

**(20 , 'RESEARCH' , 'DALLAS'),**

**(30 , 'SALES' , 'CHICAGO'),**

**(40 , 'OPERATIONS' , 'BOSTON');**

****

****

**CREATE TABLE employee(**

**empno INT PRIMARY KEY,**

**ename VARCHAR(20) NOT NULL,**

**job VARCHAR(10),**

**mgr\_id INT,**

**hired\_date DATE,**

**basic\_sal NUMERIC(6,2) DEFAULT 1000,**

**incentive NUMERIC(6,2),**

**deptno INT,**

**CONSTRAINT incentive\_check CHECK(incentive <= basic\_sal),**

**FOREIGN KEY (deptno) REFERENCES department(deptno)**

**);**

****

**INSERT INTO employee VALUES**

**(7499,'ALLEN','SALESMAN',7698,'20/02/1981',11600,300,30),**

**(7521,'WARD','SALESMAN',7698,'22/02/1981',11250,500,30),**

**(7654,'MARTIN','SALESMAN',7698,'28/09/1981',11250,1400,30)**

**;**

**INSERT INTO employee**

**(empno,ename,job,mgr\_id,hired\_date,basic\_sal,deptno)**

**VALUES**

**(7369,'SMTIH','CLERK',7902,'17/12/1980',6800,20),**

**(7566,'JONES','MANAGER',7839,'02/04/1981',22975,20),**

**(7698,'BLAKE','MANAGER',7839,'01/05/1981',22850,30),**

**(7782,'CLARK','MANAGER',7839,'09/06/1981',22450,10),**

**(7788,'SCOTT','ANALYST',7566,'09/12/1982',13000,20)**

**;**

****

**SELECT \* FROM department;**

****

**SELECT \* FROM employee;**

****

**SELECT \* FROM employee WHERE ename = 'BLAKE';**

****

**SELECT empno,ename FROM employee WHERE job = 'MANAGER';**

****

**SELECT DISTINCT(job) FROM employee WHERE job LIKE '\_A%';**

****

**SELECT ename||job FROM employee;**

****

**SELECT ename,deptno,hired\_date from employee;**

****

**SELECT \* FROM employee ORDER BY ename;**

****

**SELECT ename FROM employee WHERE ename LIKE 'S%' OR ename LIKE 'J%';**

****

**SELECT max(basic\_sal) from employee;**

****

**SELECT ename,deptno FROM employee WHERE basic\_sal BETWEEN 10000 and 25000;**

****

**SELECT deptno,COUNT(empno) FROM employee GROUP BY deptno;**

****

**SELECT ename,hired\_date FROM employee**

**WHERE (job IN ('MANAGER','CLERK')) AND incentive IS NULL;**

****

**DELETE FROM employee WHERE deptno = 10**

****

**SELECT ename,job FROM employee WHERE job <> 'ANALYST';**

****

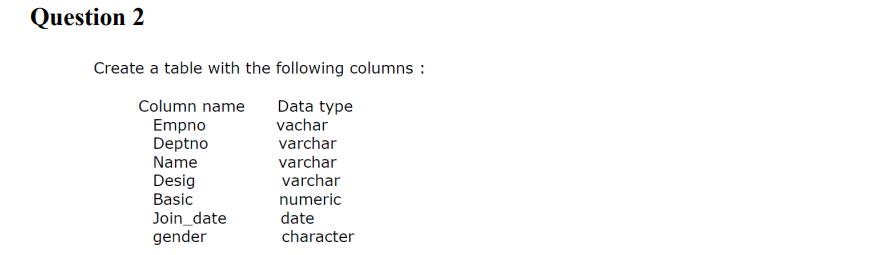
**SELECT ename FROM employee WHERE basic\_sal > 21000;**

****

**SELECT ename from employee WHERE basic\_sal = 13000;**

****

**SELECT ename, deptno, hired\_date from employee WHERE deptno IN (20,30);**

****

****

**ALTER TABLE employees**

**ADD CONSTRAINT prime PRIMARY KEY(empno,deptno);**

****

**INSERT INTO employees VALUES**

**(22001,'D1','THARUN','MANAGER',80000,'12-07-2023','M'),**

**(22002,'D2','ABHIRAM','ANALYST',75000,'27-04-2024','M'),**

**(22003,'D3','ADITHYA','CONSULTANT',78000,'16-10-2022','M');**

****

**SELECT \* FROM employees;**

****

**SELECT empno,emp\_name,desig,basic\_sal FROM employees;**

****

**SELECT empno,emp\_name FROM employees WHERE deptno = 'D2';**

****

**SELECT empno,emp\_name,desig,deptno,basic\_sal FROM employee**

**ORDER BY basic\_sal;**

****

**SELECT DISTINCT(desig) from employees;**

****

**SELECT empno,emp\_name,desig,basic\_sal from employees**

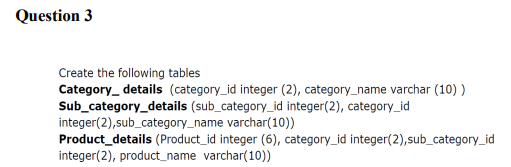
**ORDER BY basic\_sal DESC, emp\_name;**

****

**SELECT \* FROM employees ORDER BY basic\_sal;**

****

**DELETE FROM employees WHERE basic\_sal < 5000;**

****

**CREATE TABLE category\_details(**

**category\_id INT(2),**

**category\_name VARCHAR(10),**

**);**

**CREATE TABLE category\_details(**

**category\_id INT,**

**category\_name VARCHAR(10),**

**);**

**CREATE TABLE sub\_category\_details(**

**sub\_category\_id INT,**

**category\_id INT,**

**sub\_category\_name VARCHAR(10)**

**);**

****

**ALTER TABLE category\_details**

**ADD PRIMARY KEY(category\_id);**

****

**ALTER TABLE sub\_category\_details**

**ADD CONSTRAINT category\_prime PRIMARY KEY(sub\_category\_id);**

****

**ALTER TABLE sub\_category\_details**

**ADD CONSTRAINT fk\_category FOREIGN KEY (category\_id) REFERENCES category\_details (category\_id);**

****

**ALTER TABLE product\_details**

**ADD PRIMARY KEY (product\_id),**

**ADD CONSTRAINT fk\_category\_id FOREIGN KEY (category\_id) REFERENCES category\_details (category\_id),**

**ADD CONSTRAINT fk\_sub\_category\_id FOREIGN KEY (sub\_category\_id) REFERENCES sub\_category\_details (sub\_category\_id);**

****

**ALTER TABLE product\_details**

**ADD COLUMN price NUMERIC(6,2);**

****

**INSERT INTO category\_details (category\_id, category\_name) VALUES (1, 'Electronics'), (2, 'Clothing');**

**INSERT INTO sub\_category\_details (sub\_category\_id, category\_id, sub\_category\_name) VALUES (1, 1, 'Mobiles'), (2, 2, 'Dresses');**

**INSERT INTO product\_details (product\_id, category\_id, sub\_category\_id, product\_name, price) VALUES**

**(101, 1, 1, 'iPhone', 999.99),**

**(102, 1, 1, 'Android', 599.99),**

**(201, 2, 2, 'Skirt', 49.99),**

**(202, 2, 2, 'Jeans', 89.99);**

****

**ALTER TABLE product\_details**

**ADD COLUMN BRANDNAME VARCHAR(20) NOT NULL;**

****

**ALTER TABLE category\_details**

**RENAME TO Cat\_dt;**