* **WorksOn Database:**

**emp (eno, ename, bdate, title, salary, dno)**

**proj (pno, pname, budget, dno)**

**dept (dno, dname, mgreno)**

**workson (eno, pno, resp, hours)**

**Questions:**

**1) Write an SQL query that returns the project number and name for projects with a**

**budget greater than $100,000.**

**2) Write an SQL query that returns all works on records where hours worked is less than**

**10 and the responsibility is 'Manager'.**

**3) Write an SQL query that returns the employees (number and name only) who have a**

**title of 'EE' or 'SA' and make more than $35,000.**

**4) Write an SQL query that returns the employees (name only) in department 'D1'**

**ordered by decreasing salary.**

**5) Write an SQL query that returns the departments (all fields) ordered by ascending**

**department name.**

* create database WORKS\_ON\_DB;
* use WORKS\_ON\_DB;
* CREATE TABLE emp (
* eno INT PRIMARY KEY,
* ename VARCHAR(255),
* bdate DATE,
* title VARCHAR(255),
* salary DECIMAL(10, 2),
* dno INT
* );
* INSERT INTO emp (eno, ename, bdate, title, salary, dno)
* VALUES
* (101, 'John', '1980-05-10', 'Manager', 60000.00, 1),
* (102, 'Alice', '1985-12-15', 'Engineer', 55000.00, 2),
* (103, 'Bob', '1990-08-20', 'Analyst', 50000.00, 2),
* (104, 'Carol', '1988-04-25', 'Technician', 45000.00, 1);
* CREATE TABLE proj (
* pno INT PRIMARY KEY,
* pname VARCHAR(255),
* budget DECIMAL(10, 2),
* dno INT
* );
* INSERT INTO proj (pno, pname, budget, dno)
* VALUES
* (1, 'Project A', 80000.00, 1),
* (2, 'Project B', 60000.00, 2),
* (3, 'Project C', 75000.00, 1);
* CREATE TABLE dept (
* dno INT PRIMARY KEY,
* dname VARCHAR(255),
* mgreno INT
* );
* INSERT INTO dept (dno, dname, mgreno)
* VALUES
* (1, 'Sales', 101),
* (2, 'R&D', 102);
* CREATE TABLE workson (
* eno INT,
* pno INT,
* resp VARCHAR(255),
* hours INT
* );
* INSERT INTO workson (eno, pno, resp, hours)
* VALUES
* (101, 1, 'Manager', 40),
* (102, 2, 'Developer', 35),
* (103, 2, 'Analyst', 30),
* (104, 1, 'Technician', 25),
* (101, 3, 'Manager', 38),
* (104, 3, 'Technician', 20);
* select \* from emp;
* select \* from proj;
* select \* from dept;
* select \* from workson;
* -- (1)
* update proj set budget = 105000 where pno = 3;
* select pno, pname from proj where budget > 100000;
* -- (2)
* update workson set hours = 8 where pno = 3 and resp = "Manager";
* select \* from workson where hours = 8 and resp = "Manager";
* -- (3)
* update emp set title = "EE" where eno = 102;
* update emp set title = "SA" where eno = 103;
* select eno, ename from emp where title in ("EE","SA") and salary > 35000;
* -- (4)
* alter table emp modify dno varchar(10);
* update emp set dno = "D1" where dno = 1;
* update emp set dno = "D2" where dno = 2;
* select ename from emp where dno = "D1" order by salary desc;
* -- (5)
* select \* from dept order by dname;