

CHIT 1:

1. CREATE TABLE branch_master (
branch_id INT PRIMARY KEY,
branch_name VARCHAR(50) NOT NULL
);
2. CREATE TABLE employee_master (
emp_id INT PRIMARY KEY,
first_name VARCHAR(50) NOT NULL,
middle_name VARCHAR(50),
last_name VARCHAR(50),
department VARCHAR(50),
manager_id INT
);
3. INSERT INTO branch_master (branch_id, branch_name) VALUES
((101,"computer"),(102,"ENTC"),(103,"IT"),(104,"Mech"));
4. INSERT into emp_master (employee_id, first_name, last_name, middle_name, department, manager_id) values (1001,"vivek", "patil", "janardan", "Computer", 2001),(1002,"Niranjan", "Jagtap", "laxman", "Computer", 2001),(1003,"aman", "ingale", "santosh", "Computer", 2002),(1004,"varad", "shinde", "santosh", "Computer", 2004);
5. create index name_index on employee_master(first_name, last_name)
6. create view employeeDetails as SELECT first_name, last_name, department from employee_master;

CHIT NO. 2

1. create database university
2. use university
3. create table student(stud_id int PRIMARY KEY,
department varchar(30),
name varchar(30),
sem int,
yr int,
credits int);
4. create table teaches (teacher_id int PRIMARY KEY,
teacher_name varchar(30),
salary float,
department varchar (40));
5. insert into student(stud_id, s_name, department, sem, yr, credits) values
(1001,"vivek", "Computer", 5,3, 2001),
(1002,"Niranjan", "Computer",5,3, 2001),
(1003,"aman","Computer", 5,3 ,2002),
(1004,"varad", "Computer",5,3,2004);
6. insert into teaches(teacher_id, teacher_name, salary, department) values
(0001, "shafali gupta", 20000, "COMPUTER"),
(0002, "pradnya kasture", 50000, "Cyber"),
(0003, "priyanka jadhav", 40000, "Data Science");
7. SELECT teacher_name,MAX(salary) from teaches;
8. delete from teaches where salary <= 20000;
9. select sum(salary) from teaches GROUP by department;

CHIT No. 3

1. CREATE table dept(deptId int PRIMARY KEY, deptName varchar(30));
2. create table emp(empId int PRIMARY key,
 empName varchar(30),
 empSal int,
 empDeptId int,
 foreign key empDeptId REFERENCES dept(deptId)
);
3. alter table emp modify empName varchar(30) NOT NULL;
4. insert into dept(deptId, deptName) VALUES (2020, "Comp"),(2025,"IT"),(2021,"Mech");
5. insert into emp (empId, empName, empsal,empdeptid) values
(101,"Vivek", 100000,2020),
(102,"Niranjan", 340000,2025),
(103,"Varad", 600000,2025),
(104,"Aman", 200000,2021);
6. alter table dept add deptLoc varchar(30) UNIQUE;

CHIT No. 4

1. CREATE table dept(deptId int PRIMARY KEY, deptName varchar(30));
2. create table emp(empId int PRIMARY key,
 empName varchar(30),
 empSal int,
 empDeptId int,
 foreign key empDeptId REFERENCES dept(deptId)
);
3. insert into dept(deptId, deptName) VALUES (2020, "Comp"),(2025,"IT"),(2021,"Mech");
4. insert into emp (empId, empName, empsal,empdeptid) values
(101,"Vivek", 100000,2020),
(102,"Niranjan", 340000,2025),
(103,"Varad", 600000,2025),
(104,"Aman", 200000,2021);
5. select * from emp where empDeptId in (2020, 10,30,2021);
6. select * from emp where empSal BETWEEN 100000 and 500000;
7. SELECT Count(*) as Number_Of_Employees from emp;
8. select avg(empsal) as average, empDeptId from emp GROUP BY empDeptId;
9. select * from emp ORDER BY empsal;

CHIT No. 5

1. create table customer(
 customer_id int PRIMARY KEY,
 first_name varchar(30)
);
2. create table orders (
 order_id int PRIMARY KEY,
 amount int,
 customer_id int,
 FOREIGN KEY (customer_id) REFERENCES customer(customer_id)
);
3. INSERT INTO customer (customer_id, first_name)

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VALUES
(1, 'Alice'),
(2, 'Bob'),
(3, 'Charlie'),
(4, 'David'),
(5, 'Eva');

4. INSERT INTO orders (order_id, amount, customer_id)
VALUES
(101, 500, 1),
(102, 1200, 2),
(103, 750, 3),
(104, 1500, 1),
(105, 300, 5);

5. select * from customer c
LEFT JOIN orders o
ON c.customer_id=o.customer_id;

6. select * from customer c
RIGHT JOIN orders o
ON c.customer_id=o.customer_id;

7. select * from customer c
CROSS JOIN orders o
ON c.customer_id=o.customer_id;

8. #INNER by default
select * from customer c
JOIN orders o
ON c.customer_id=o.customer_id;

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CHIT No. 6

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1. create table stud_marks(name varchar(30), marks int);
2. create table result(roll int,name varchar(30),class varchar(30));
3. DELIMITER $$

create PROCEDURE proc_grade()

BEGIN

DECLARE v_name varchar(30);

DECLARE v_roll int;

DECLARE v_marks int;

DECLARE v_class varchar(30);

DECLARE done int DEFAULT 0;

DECLARE stud_cursor CURSOR FOR
select name,marks,roll from stud_marks;

DECLARE CONTINUE HANDLER for not FOUND set done=1;

OPEN stud_cursor;

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read_loop: LOOP
    FETCH stud_cursor INTO v_name, v_marks, v_roll;
    IF done THEN
        LEAVE read_loop;
    END IF;
    IF v_marks BETWEEN 1500 AND 990 THEN
        SET v_class="distinction";
    ELSEIF      v_marks BETWEEN 989 AND 900 THEN
        SET v_class ="first_class";
    ELSEIF v_marks BETWEEN 899 AND 825 THEN
        SET v_class ="higher_second_class";
    ELSE
        SET v_class="fail";
    END IF;
    INSERT INTO stud_marks (roll, name, class) values (v_roll, v_marks, v_class);
END LOOP;
CLOSE stud_cursor;
END $$

DELIMITER ;

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CHIT No. 7

1. #Create table n_rollcall, o_rollcall and add values in o_rollcall some values in n_rollcall
2. DELIMITER \$\$

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create procedure exe()
begin

    DECLARE done int default 0;
    DECLARE v_roll int;
    DECLARE v_name varchar(30);
    DECLARE v_count int;
    DECLARE n_cursor cursor FOR
        SELECT name,roll from n_rollcall;
    declare CONTINUE HANDLER for
        not found set done = 1;

    OPEN n_cursor;
read_loop: LOOP
    FETCH n_cursor into v_name, v_roll;

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if done THEN
    LEAVE read_loop;
END IF;

SELECT count(*) into v_count
    from n_rollcall;
if v_count>0 then
    INSERT INTO o_rollcall (name, roll) values(v_name, v_roll);
END IF;
END LOOP;
CLOSE n_cursor;
end$$;
DELIMITER ;

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CHIT No. 8

1. create table accounts(
acc_no int PRIMARY KEY,
cust_name varchar(40),
balance int);
2. INSERT INTO accounts (acc_no,cust_name,balance) VALUES
(101,"Vivek", 2000),
(102,"Varad", 3000),
(103,"Aman", 5000),
(104,"Niranjan", 20000),
(105,"Shailesh", 12500);
3. START TRANSACTION;
4. update accounts set balance = balance-5000 WHERE acc_no = 104;
5. UPDATE accounts set balance = balance+5000 where acc_no = 101;
6. SELECT * from accounts;
7. ROLLBACK;
8. SELECT * FROM accounts;
9. START TRANSACTION;
10. update accounts set balance = balance-5000 WHERE acc_no = 104;
11. UPDATE accounts set balance = balance+5000 where acc_no = 101;
12. SELECT * from accounts;
13. COMMIT;
14. SELECT * FROM accounts;
15. START TRANSACTION;
16. update accounts set balance = balance-5000 WHERE acc_no = 104;
17. SAVEPOINT debited;
18. UPDATE accounts set balance = balance+5000 where acc_no = 101;
19. SAVEPOINT credited;
20. ROLLBACK to debited;
21. SELECT * FROM accounts;