**Assignment**

**Feb25/ DBT/127**

**Database Technologies**

**Diploma in Advance Computing**

**February 2025**

**Function**

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| 1. **Pass DEPTNO to the function (named sumSalary) and calculate the sum of salary.(Use: EMP table)** |
| **DROP FUNCTION IF EXISTS sumSalary;**  **delimiter $**  **CREATE FUNCTION sumSalary(dno int) RETURNS int**  **DETERMINISTIC**  **BEGIN**  **DECLARE TotalSalary int DEFAULT 0;**    **IF EXISTS(SELECT 1 from emp WHERE deptno=dno)THEN**    **SELECT sum(sal) INTO TotalSalary from emp WHERE deptno=dno;**    **RETURN TotalSalary;**    **ELSE**  **SIGNAL SQLSTATE '45000'**  **SET MESSAGE\_TEXT = 'Department not found';**    **end if;**  **end $**  **delimiter ;** |
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| 1. **Create a new table called STUDENT\_NEW having following columns (studentID, namefirst, namelast, DOB, and emailID). Write a function names autoNumberto return auto generate studentID and return the new value (Use: STUDENT\_NEW table).** |
| **DROP FUNCTION IF EXISTS autoNumber;**  **delimiter $**  **CREATE FUNCTION autoNumber() RETURNS int**  **DETERMINISTIC**  **BEGIN**    **set @x=0;**    **SELECT ifnull(max(studentid),0)+1 into @x from student\_new;**    **RETURN @x;**  **end $**  **delimiter ;** |
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| 1. **Write a function which will accept email-ID from the user, if the email-ID is present return his username and password or else `Return “Employee not exists”. (Use: LOGIN table)** |
| **DROP FUNCTION IF EXISTS AcceptEmailid;**  **delimiter $**  **CREATE FUNCTION AcceptEmailid(mail VARCHAR(50)) RETURNS VARCHAR(500)**  **DETERMINISTIC**  **BEGIN**    **DECLARE x VARCHAR(100);**  **DECLARE y VARCHAR(100);**  **DECLARE Result VARCHAR(500);**    **IF EXISTS (SELECT 1 from login WHERE email=mail)THEN**    **SELECT username,password into x,y from login WHERE email=mail;**    **set Result = CONCAT(x,' ','|',' ',y);**    **RETURN Result;**    **ELSE**    **RETURN 'Employee Not EXISTS...';**    **end if;**  **end $**  **delimiter ;** |
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| 1. **Write a function which will accept studentID from the user and calculate the sum of (10th, 12th, and BE) marks.** |
| **DROP FUNCTION IF EXISTS SumMarks;**  **delimiter $**  **CREATE FUNCTION SumMarks(id int) RETURNS int**  **DETERMINISTIC**  **BEGIN**  **DECLARE x int DEFAULT 0;**    **SELECT sum(marks) into x from student\_qualifications WHERE name in ('10','12','be') and studentid=id;**    **RETURN COALESCE(x,0);**  **end $**  **delimiter ;** |
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