

Name :-

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Subject :- DBMS

Lab Assignment 8

## Question 1

```
-- Question 1
DELIMITER $$

CREATE TRIGGER update_total_capacity_before_insert
BEFORE INSERT ON WorkCenters
FOR EACH ROW
BEGIN
    UPDATE WorkCenterStats
    SET totalCapacity = totalCapacity + NEW.capacity;
END$$

DELIMITER ;
```

## Question 2

```
-- Question 2
DELIMITER $$

CREATE TRIGGER insert_reminder_if_birthdate_null
AFTER INSERT ON members
FOR EACH ROW
BEGIN
    IF NEW.birthDate IS NULL THEN
        INSERT INTO reminders (memberId, message)
        VALUES (NEW.id, 'Please update your birth date');
    END IF;
END$$

DELIMITER ;
```

## Question 3

```
-- Question 3
```

```
DELIMITER $$
```

```
CREATE TRIGGER archive_salary_before_delete
```

```
BEFORE DELETE ON Salaries
```

```
FOR EACH ROW
```

```
> BEGIN
```

```
    INSERT INTO SalaryArchives (employeeNumber, amount, deletedAt)
```

```
    VALUES (OLD.employeeNumber, OLD.salary, NOW());
```

```
~ END$$
```

```
DELIMITER ;
```

## Question 4

```
-- Question 4
```

```
DELIMITER $$
```

```
CREATE TRIGGER update_salary_budget_after_delete
```

```
AFTER DELETE ON Salaries
```

```
FOR EACH ROW
```

```
> BEGIN
```

```
    UPDATE SalaryBudgets
```

```
    SET total = (SELECT SUM(salary) FROM Salaries);
```

```
~ END$$
```

```
DELIMITER ;
```