

## STORED PROCEDURES:

```
DELIMITER //
CREATE PROCEDURE GetAgeRangeStats()
BEGIN
    SELECT
        FLOOR(u.Age / 10) * 10 AS Age_Range_Start,
        COUNT(u.User_Id) AS User_Count,
        AVG(b.BMI) AS Avg_BMI,
        AVG(b.HbA1c) AS Avg_HbA1c
    FROM USERINFO u
    JOIN BIOMETRICSINFO b ON u.User_Id = b.User_Id
    JOIN LIFESTYLEINFO l ON u.User_Id = l.User_Id
    WHERE l.Smoker = 0
    GROUP BY Age_Range_Start
    ORDER BY Age_Range_Start;
END
// DELIMITER ;
```

```
DELIMITER //
CREATE PROCEDURE GetHighRiskPatients()
BEGIN
    SELECT
        u.User_Id,
        u.Age,
        b.BMI,
        b.HbA1c,
        u.Diagnosis
    FROM USERINFO u
    JOIN LIFESTYLEINFO l ON u.User_Id = l.User_Id
    JOIN BIOMETRICSINFO b ON u.User_Id = b.User_Id
    WHERE l.Smoker = 0
    AND EXISTS (
        SELECT 1
        FROM CONDITIONSINFO c
        WHERE c.User_Id = u.User_Id
        AND (c.HighBP = 1 OR c.HeartDisease = 1)
    )
    LIMIT 15;
END
// DELIMITER ;
```