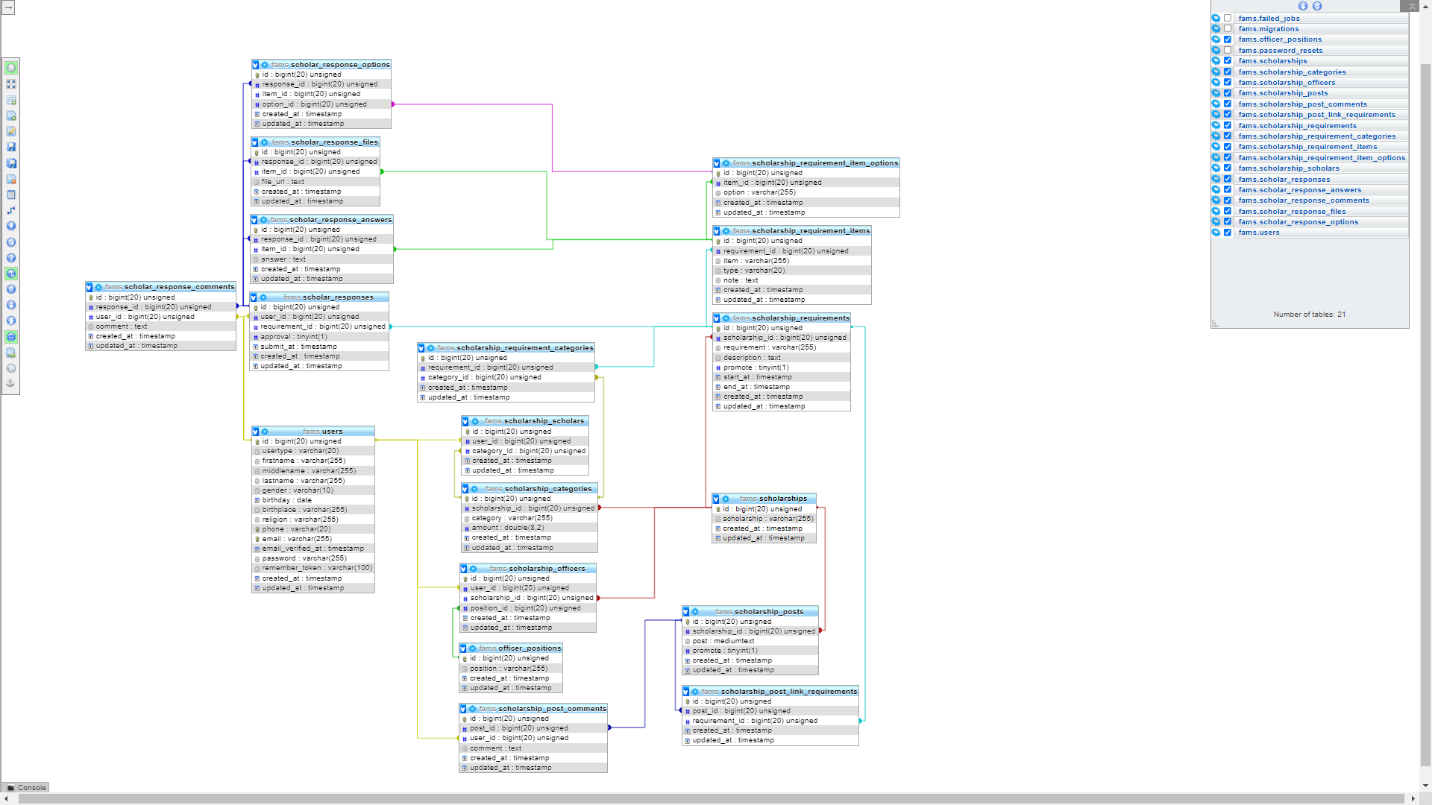
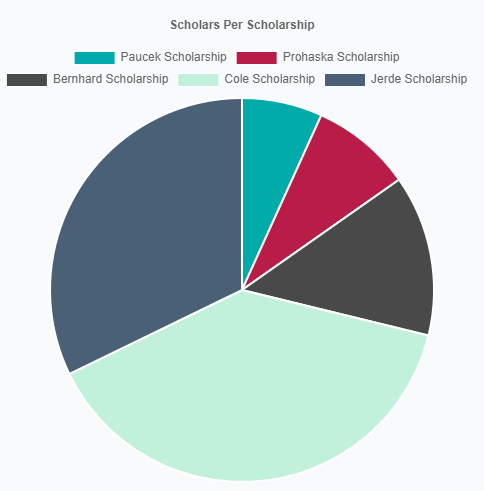
**Revised Database Architecture**

Title: FAMS: Financial Assistance Management System for ABC Municipality Utilizing C4.5 Algorithm



**Some queries that is essential for the delivery of such reports or analysis**



SELECT s.scholarship as label, COUNT(u.id) AS data

FROM users u

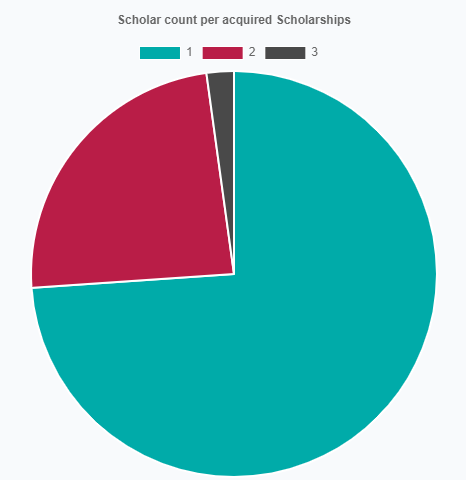
INNER JOIN scholarship\_scholars ss ON u.id = ss.user\_id

    INNER JOIN scholarship\_categories sc ON ss.category\_id = sc.id

    INNER JOIN scholarships s ON sc.scholarship\_id = s.id

WHERE u.usertype = 'scholar'

GROUP BY s.id



SELECT DISTINCT(COUNT(u.id)) as label, (

    SELECT COUNT(u2.id)

    FROM users u2

    WHERE (COUNT(u.id)) = (

        SELECT COUNT(u2.id)

        FROM scholarship\_scholars ss2

        WHERE ss2.user\_id = u2.id

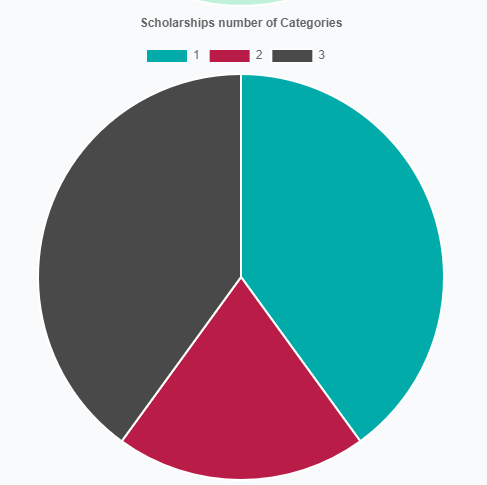
        )

    ) AS data

FROM users u

    INNER JOIN scholarship\_scholars ss ON u.id = ss.user\_id

GROUP BY u.id



SELECT DISTINCT(COUNT(sc.scholarship\_id)) AS label, (

    SELECT COUNT(s.id)

    FROM scholarships s

    WHERE COUNT(sc.scholarship\_id) = (

        SELECT COUNT(sc2.id)

        FROM scholarship\_categories sc2

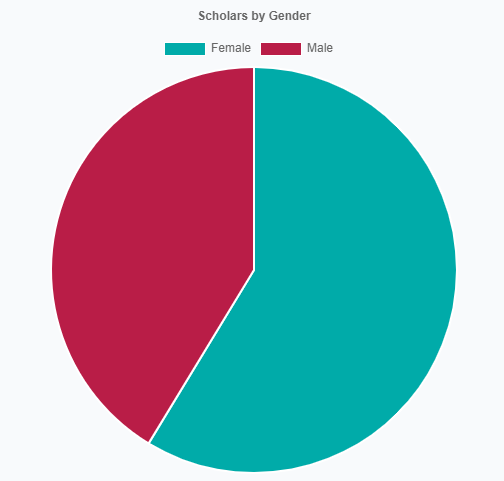
        WHERE sc2.scholarship\_id = s.id

        )

    ) AS data

FROM scholarship\_categories sc

GROUP BY sc.scholarship\_id



SELECT COUNT(DISTINCT(u.id)) AS data, u.gender AS label

FROM users u

    INNER JOIN scholarship\_scholars ss ON u.id = ss.user\_id

WHERE u.usertype = 'scholar'

GROUP BY u.gender