

Database Design & SQL -2023S

Student ID: 901142

Student Name: Roshan Shrestha

Practical Exercise 5_6_7_8

Activity #1

List of entities:

- **SECTION_142**
- **STAFF_142**
- **STAFF_DETAIL_142**
- **PERIOD_142**
- **PERIOD_DETAIL_142**
- **UNIT_142**
- **UNIT_DETAIL_142**
- **PERSONAL_DETAIL_142**
- **STUDENT_142**
- **ENROLLED_COURSE_142**

Activity #2

Optional and mandatory attributes:

1. SECTION_142

- Section id (Mandatory)
- Name (Mandatory)
- Long name (Mandatory)

2. STAFF_142

- Staff id (Mandatory)
- Section id (Mandatory)

3. STAFF_DETAIL_142

- Staff id (Mandatory)
- Department (Mandatory)
- Contact (Mandatory)
- Join date (Mandatory)
- Personal detail id (Mandatory)

4. PERIOD_142

- Period id (Mandatory)
- Unit id (Mandatory)

5. PERIOD_DETAIL_142

- Period id (Mandatory)
- Year (Mandatory)
- Teaching duration (Mandatory)
- Start date (Mandatory)
- End date (Mandatory)
- Break start date (Mandatory)
- Break end date (Mandatory)

6. UNIT_142

- Unit id (Mandatory)
- Section id (Mandatory)

7. UNIT_DETAIL_142

- Unit id (Mandatory)
- Code (Mandatory)
- Name (Mandatory)
- Credit score (Mandatory)
- Staff id (Mandatory)

8. PERSONAL_DETAIL_142

- Personal detail id (Mandatory)
- Full name (Mandatory)
- Email (Mandatory)
- Role (Mandatory)
- Dob (Mandatory)
- Address (Mandatory)

9. STUDENT_142

- Study type (Mandatory)
- Nationality (Mandatory)
- Admission date (Mandatory)
- Personal detail id (Mandatory)

10. ENROLLED COURSE_142

- Enrolled course id (Mandatory)
- Obtained score (Mandatory)
- Completion date (Mandatory)
- Student id (Mandatory)
- Unit id (Mandatory)
- Period id (Mandatory)
-

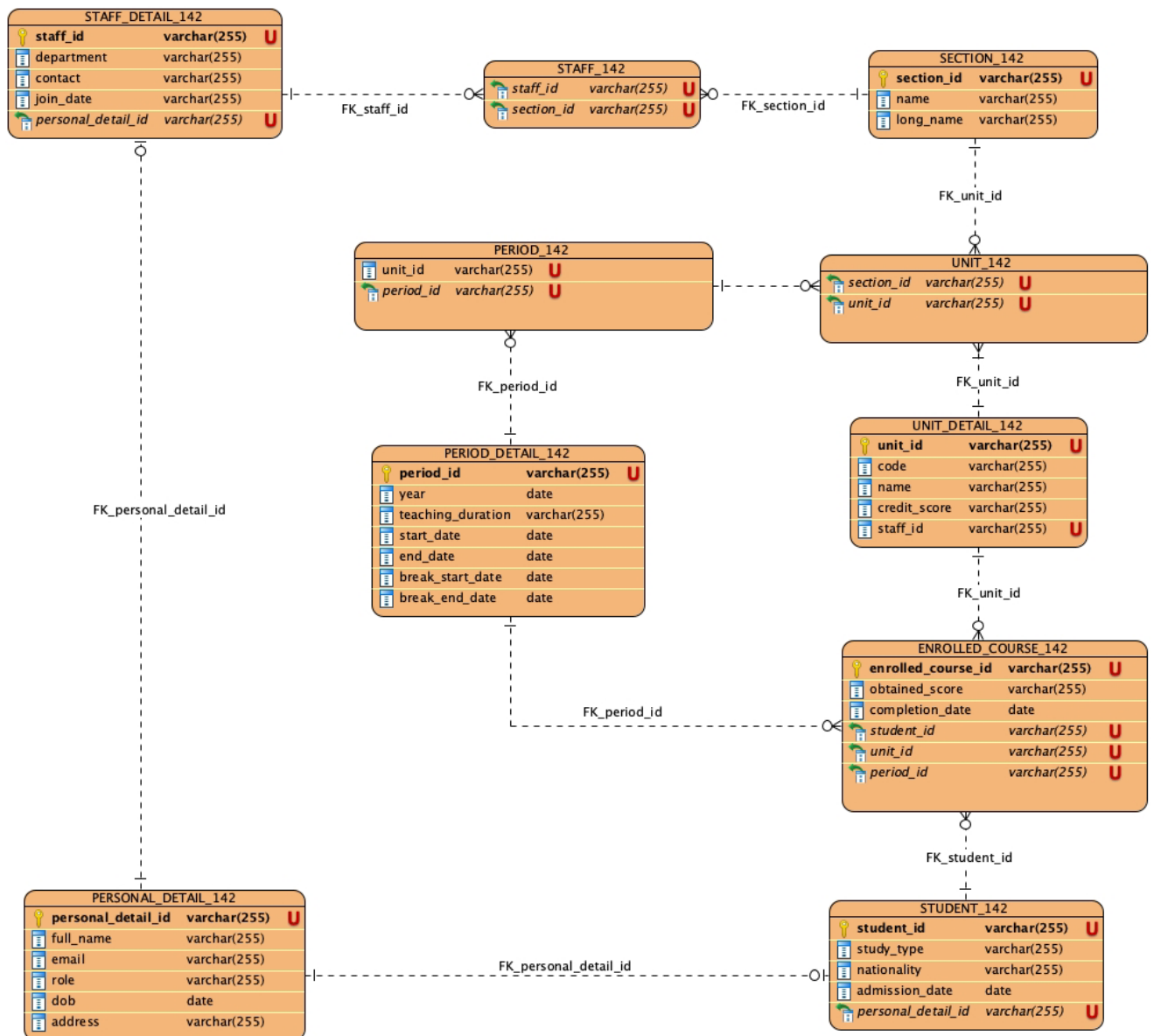
Activity #3

Relationship matrix table:

[illegible]

Activity #4

Entity Relationship Diagram:



created by: Roshan Shrestha (901142)

Figure 1: ER diagram