Staffing:

UNF:

CLASS(centre\_id, centre\_name, centre\_street, centre\_town, centre\_pc, class\_no, class\_dur, facility\_rm\_no, start\_datetime, no\_of\_session, (staff\_id, staff\_name, class\_leader, first\_aid\_cert))

1NF:

CLASS (centre\_id, class\_no, centre\_name, centre\_street, centre\_town, centre\_pc, class\_dur, facility\_rm\_no, start\_datetime, no\_of\_session)

CLASS\_STAFF(centre\_id, class\_no, staff\_id, staff\_name, class\_leader, first\_aid\_cert)

Partial dependency:

centre\_id -> centre\_name, centre\_street, centre\_town, centre\_pc

staff\_id -> staff\_name

2NF:

CLASS (centre\_id, class\_no, class\_dur, facility\_rm\_no, start\_datetime, no\_of\_session)

CENTRE(centre\_id, centre\_name, centre\_street, centre\_town, centre\_pc)

CLASS\_STAFF(centre\_id, class\_no, staff\_id, class\_leader, first\_aid\_cert)

STAFF(staff\_id, staff\_name)

Transitive dependency:

No transitive depedency

3NF:

CLASS(centre\_id, class\_no, class\_dur, facility\_rm\_no, start\_datetime, no\_of\_session)

CENTRE(centre\_id, centre\_name, centre\_street, centre\_town, centre\_pc)

CLASS\_STAFF (centre\_id, class\_no ,staff\_id, class\_leader, first\_aid\_cert)

STAFF(staff\_id, staff\_name)

Full dependency:

centre\_id, class\_no -> class\_dur, facility\_rm\_no, start\_datetime, no\_of\_session

centre\_id -> centre\_name, centre\_street, centre\_town, centre\_pc

centre\_id, class\_no, staff\_id -> class\_leader, first\_aid\_cert

staff\_id ->staff\_name,

Attendance:

UNF:

CLASS (centre\_id, centre\_name, class\_no, class\_type, class\_desc, facility\_rm\_no, start\_datetime, no\_of\_session, (member\_no, payment\_date, (session\_date, session\_attend), total\_attend))

1NF:

CLASS(centre\_id, class\_no, centre\_name, class\_type, class\_desc, facility\_rm\_no, start\_datetime, no\_of\_session)

ATTENDANCE(centre\_id, class\_no, member\_no, payment\_date, total\_attend)

SESSION(centre\_id, class\_no, member\_no, session\_date, session\_attend)

Partial dependency:

centre\_id -> centre\_name

2NF:

CLASS (centre\_id, class\_no, class\_type, class\_desc, facility\_rm\_no, start\_datetime, no\_of\_session)

CENTRE(centre\_id, centre\_name)

ATTENDANCE(centre\_id, class\_no, member\_no, payment\_date, total\_attend)

SESSION(centre\_id, class\_no, member\_no, session\_date, session\_attend)

Transitive dependency:

No Transitive dependency

3NF:  
CLASS (centre\_id, class\_no, class\_type, class\_desc, facility\_rm\_no, start\_datetime, no\_of\_session)

CENTRE(centre\_id, centre\_name)

ATTENDANCE(centre\_id, class\_no, member\_no, payment\_date, total\_attend)

SESSION(centre\_id, class\_no, member\_no, session\_date, session\_attend)

Full dependency:

centre\_id, class\_no -> class\_type, class\_desc, facility\_rm\_no, start\_datetime, no\_of\_session

centre\_id -> centre\_name

centre\_id, class\_no, member\_no -> payment\_date, total\_attend

centre\_id, class\_no, member\_no, session\_date -> session\_attend

Collected 3NF:

1. CLASS(centre\_id, class\_no, class\_dur, facility\_rm\_no, start\_datetime, no\_of\_session)
2. CENTRE(centre\_id, centre\_name, centre\_street, centre\_town, centre\_pc)
3. CLASS\_STAFF (centre\_id, class\_no ,staff\_id, class\_leader, first\_aid\_cert)
4. STAFF(staff\_id, staff\_name)
5. CLASS (centre\_id, class\_no, class\_type, class\_desc, facility\_rm\_no, start\_datetime, no\_of\_session)
6. CENTRE(centre\_id, centre\_name)
7. ATTENDANCE(centre\_id, class\_no, member\_no, payment\_date, total\_attend)
8. SESSION(centre\_id, class\_no, member\_no, session\_date, session\_attend)

Attribute Synthesis: group all relation with same pk:

1 & 5

CLASS (centre\_id, class\_no, class\_dur, class\_type, class\_desc, facility\_rm\_no, start\_datetime, no\_of\_session)

2 & 6

CENTRE(centre\_id, centre\_name, centre\_street, centre\_town, centre\_pc)

CLASS\_STAFF (centre\_id, class\_no ,staff\_id, class\_leader, first\_aid\_cert)

STAFF(staff\_id, staff\_name)

ATTENDANCE(centre\_id, class\_no, member\_no, payment\_date, total\_attend)

SESSION(centre\_id, class\_no, member\_no, session\_date, session\_attend)