

# A01\_G06 Normalisation

## UNF

### Staffing report form

CLASS\_STAFFING(centre\_id, centre\_name, centre\_address\_street\_no, centre\_address\_street, centre\_address\_town, centre\_address\_postcode, class\_no, class\_duration, facility\_room\_no, class\_datetime, class\_no\_sessions, (staff\_id, staff\_first\_name, staff\_last\_name, staff\_isfirstaid))

### Attendance report form

CLASS\_MEMBER\_ATTENDANCE(centre\_id, centre\_name, class\_no, class\_type, class\_description, facility\_room\_no, class\_datetime, class\_no\_sessions, (member\_no, mem\_class\_paydate, (class\_datetime, mem\_class\_attend\_isattend), mem\_class\_ttlattend))

## 1NF

### Staffing report form

CLASS(centre\_id, centre\_name, centre\_address\_street\_no, centre\_address\_street, centre\_address\_town, centre\_address\_postcode, class\_no, class\_duration, facility\_room\_no, class\_datetime, class\_no\_sessions, staff\_id)

CKs: (centre\_id, class\_no), (centre\_id, facility\_room\_no, class\_datetime)

Partial dependencies:

centre\_id -> centre\_name, centre\_address\_street\_no, centre\_address\_street, centre\_address\_town, centre\_address\_postcode

CLASS\_STAFFING(centre\_id, class\_no, staff\_id, staff\_first\_name, staff\_last\_name, staff\_isfirstaid)

CKs: (centre\_id, class\_no, staff\_id)

Partial dependencies:

staff\_id -> staff\_first\_name, staff\_last\_name, staff\_isfirstaid

### Attendance report form

CLASS(centre\_id, centre\_name, class\_no, class\_type, class\_description, facility\_room\_no, class\_datetime, class\_no\_sessions)

CKs: (centre\_id, class\_no), (centre\_id, facility\_room\_no, class\_datetime)

Partial dependencies:

centre\_id -> centre\_name

MEMBER\_CLASS\_SIGNUP(centre\_id, class\_no, member\_no, mem\_class\_paydate, mem\_class\_ttlattend)

CKs: (centre\_id, class\_no, member\_no)

Partial dependencies:

None

MEMBER\_CLASS\_ATTENDANCE(centre\_id, class\_no, member\_no, mem\_class\_attend\_isattend)

CKs: (centre\_id, class\_no, member\_no)

Partial dependencies:

None

## 2NF

### Staffing report form

CENTRE(centre\_id, centre\_name, centre\_address\_street\_no, centre\_address\_street, centre\_address\_town, centre\_address\_postcode)

Transitive dependencies:

None

CLASS(centre\_id, class\_no, class\_duration, facility\_room\_no, class\_datetime, class\_no\_sessions, staff\_id)

Transitive dependencies:

None

CLASS\_STAFFING(centre\_id, class\_no, staff\_id)

Transitive dependencies:

None

STAFF(staff\_id, staff\_first\_name, staff\_last\_name, staff\_isfirstaid)

Transitive dependencies:

None

### **Attendance report form**

CLASS(centre\_id, class\_no, class\_type, class\_description, facility\_room\_no, class\_datetime, class\_no\_sessions)

Transitive dependencies:

None

CENTRE(centre\_id, centre\_name)

Transitive dependencies:

None

MEMBER\_CLASS\_SIGNUP(centre\_id, class\_no, member\_no, mem\_class\_paydate, mem\_class\_ttlattend)

Transitive dependencies:

None

MEMBER\_CLASS\_ATTENDANCE(centre\_id, class\_no, member\_no, mem\_class\_attend\_isattend)

Transitive dependencies:

None

## **3NF**

### **Staffing report form**

CENTRE(centre\_id, centre\_name, centre\_address\_street\_no, centre\_address\_street, centre\_address\_town, centre\_address\_postcode)

Full dependencies:

centre\_id -> centre\_name, centre\_address\_street\_no, centre\_address\_street, centre\_address\_town, centre\_address\_postcode

CLASS(centre\_id, class\_no, class\_duration, facility\_room\_no, class\_datetime, class\_no\_sessions, staff\_id)

Full dependencies:

centre\_id, class\_no -> class\_duration, facility\_room\_no, class\_datetime, class\_no\_sessions, staff\_id

CLASS\_STAFFING(centre\_id, class\_no, staff\_id)

Full dependencies:

STAFF(staff\_id, staff\_first\_name, staff\_last\_name, staff\_isfirstaid)

Full dependencies:

staff\_id -> staff\_first\_name, staff\_last\_name, staff\_isfirstaid

### **Attendance report form**

CLASS(centre\_id, class\_no, class\_type, class\_description, facility\_room\_no, class\_datetime, class\_no\_sessions)  
Full dependencies:  
centre\_id, class\_no -> class\_type, class\_description, facility\_room\_no, class\_datetime, class\_no\_sessions

CENTRE(centre\_id, centre\_name)  
Full dependencies:  
centre\_id -> centre\_name

MEMBER\_CLASS\_SIGNUP(centre\_id, class\_no, member\_no, mem\_class\_paydate, mem\_class\_ttlattend)  
Full dependencies:  
centre\_id, class\_no, member\_no -> mem\_class\_paydate, mem\_class\_ttlattend

MEMBER\_CLASS\_ATTENDANCE(centre\_id, class\_no, member\_no, mem\_class\_attend\_isattend)  
Full dependencies:  
centre\_id, class\_no, member\_no -> mem\_class\_attend\_isattend

## Attribute synthesis

Combined CLASS and CENTRE relations

## Final 3NF relations

CENTRE(centre\_id, centre\_name, centre\_address\_street\_no, centre\_address\_street, centre\_address\_town, centre\_address\_postcode)

CLASS(centre\_id, class\_no, class\_duration, class\_type, class\_description, facility\_room\_no, class\_datetime, class\_no\_sessions, staff\_id)

STAFF(staff\_id, staff\_first\_name, staff\_last\_name, staff\_isfirstaid)

CLASS\_STAFFING(centre\_id, class\_no, staff\_id)

MEMBER\_CLASS\_SIGNUP(centre\_id, class\_no, member\_no, mem\_class\_paydate, mem\_class\_ttlattend)

MEMBER\_CLASS\_ATTENDANCE(centre\_id, class\_no, member\_no, mem\_class\_attend\_isattend)