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Student ID: 30391113

Student Name: An Ju

Assignment 1B Normalisation

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# Normalisation

## Class Staffing Report

### UNF

CLASS (center\_id, center\_name, center\_street, center\_town, center\_post, class\_no, class\_mins, facility\_no, class\_start, class\_sessno, (staff\_id, staff\_fname, staff\_lname, cstaff\_leader, staff\_faid))

### 1NF

CLASS (center\_id, class\_no, class\_mins, facility\_no, class\_start, class\_sessno)  
CLASS\_STAFF (center\_id, class\_no, staff\_id, staff\_fname, staff\_lname, cstaff\_leader, staff\_faid)

Partial Dependencies:

center\_id -> center\_name, center\_street, center\_town, center\_post

staff\_id -> staff\_fname, staff\_lname, staff\_faid

### 2NF

CLASS (center\_id, class\_no, class\_mins, facility\_no, class\_start, class\_sessno)  
CENTER (center\_id, center\_name, center\_street, center\_town, center\_post)  
CLASS\_STAFF (center\_id, class\_no, staff\_id, cstaff\_leader)  
STAFF (staff\_id, staff\_fname, staff\_lname, staff\_faid)

Transitive Dependencies:

No transitive dependencies present.

### 3NF

CLASS (center\_id, class\_no, class\_mins, facility\_no, class\_start, class\_sessno)  
CENTER (center\_id, center\_name, center\_street, center\_town, center\_post)  
CLASS\_STAFF (staff\_id, center\_id, class\_no, cstaff\_leader)  
STAFF (staff\_id, staff\_fname, staff\_lname, staff\_faid)

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Full dependencies:

center\_id, class\_no -> class\_mins, facility\_no, class\_start, class\_sessno

center\_id -> center\_name, center\_street, center\_town, center\_post

center\_id, class\_no, staff\_id -> cstaff\_leader

staff\_id -> staff\_fname, staff\_lname, staff\_faia

## Class Attendance Report

### UNF

CLASS (center\_id, center\_name, class\_no, class\_type, class\_desc, facility\_no, class\_start, class\_sessno, (member\_id, payment\_date, (sess\_date), memberatd\_total))

### 1NF

CLASS (center\_id, class\_no, center\_name, class\_type, class\_desc, facility\_no, class\_start, class\_sessno)

ATTENDANCE (center\_id, class\_no, member\_id, payment\_date, memberatd\_total)

SESSION (center\_id, class\_no, member\_id, sess\_date)

Partial Dependencies:

center\_id -> center\_name

### 2NF

CLASS (center\_id, class\_no, class\_type, class\_desc, facility\_no, class\_start, class\_sessno)

CENTER (center\_id, center\_name)

MEMBER\_ATTENDANCE (center\_id, class\_no, member\_id, payment\_date, memberatd\_total)

SESSION (center\_id, class\_no, member\_id, sess\_date)

Transitive Dependencies:

No Transitive dependencies present

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### 3NF

CLASS (center\_id, class\_no, class\_type, class\_desc, facility\_no, class\_start, class\_sessno)

CENTER (center\_id, center\_name)

MEMBER\_ATTENDANCE (center\_id, class\_no, member\_id, payment\_date, memberatd\_total)

SESSION (center\_id, class\_no, member\_id, sess\_date)

Full Dependencies:

center\_id, class\_no -> class\_type, class\_desc, facility\_no, class\_start, class\_sessno

center\_id -> center\_name

center\_id, class\_no, member\_id -> payment\_date, memberatd\_total

### COLLECTED 3NF RELATIONS:

1. CLASS (center\_id, class\_no, class\_mins, facility\_no, class\_start, class\_sessno)

2. CENTER (center\_id, center\_name, center\_street, center\_town, center\_post)

3. CLASS\_STAFF (staff\_id, center\_id, class\_no, cstaff\_leader)

4. STAFF (staff\_id, staff\_fname, staff\_lname, staff\_faaid)

5. CLASS (center\_id, class\_no, class\_type, class\_desc, facility\_no, class\_start, class\_sessno)

6. CENTER (center\_id, center\_name)

7. MEMBER\_ATTENDANCE (center\_id, class\_no, member\_id, payment\_date, memberatd\_total)

8. SESSION (center\_id, class\_no, member\_id, sess\_date)

### ATTRIBUTE SYNTHESIS:

1. & 5.

CLASS (center\_id, class\_no, class\_mins, class\_type, class\_desc, facility\_no, class\_start, class\_sessno)

2. & 6.

CENTER (center\_id, center\_name, center\_street, center\_town, center\_post)

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3.

CLASS\_STAFF (staff\_id, center\_id, class\_no, cstaff\_leader)

4.

STAFF (staff\_id, staff\_fname, staff\_lname, staff\_faid)

7.

MEMBER\_ATTENDANCE (center\_id, class\_no, member\_id, payment\_date,  
memberatd\_total)

8.

SESSION (center\_id, class\_no, member\_id, sess\_date)