

**Name:** Farayha Zaheer Alam  
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### 1. Class Staffing Report

#### Monash Movement Class Staffing Report

Centre Id 10  
Centre Name Clayton ARC Centre  
Centre Address  
Street 123 Wild Rd  
Town Clayton  
Postcode 3168  
  
Class Number 123  
Class Duration (mins) 45  
Facility Room No 5  
Start Date/Time 23 Aug 2021 18:00  
No of Sessions 4

Staff ID	Staff Name	Class Leader	First Aid Certified
321	Avery Xue	Yes	No
421	Haven Perry	No	Yes

#### UNF:

CLASS\_REPORT(centre\_id, centre\_name, centre\_street, centre\_town, centre\_post\_code, class\_no, class\_duration, facility\_room\_no, start\_date\_time, num\_of\_sessions, (staff\_id, staff\_name, class\_leader, first\_aid\_certification))

#### 1NF:

CLASS\_REPORT(centre\_id, centre\_name, centre\_street, centre\_town, centre\_post\_code, class\_no, class\_duration, facility\_room\_no, start\_date\_time, num\_of\_sessions)  
CLASS\_STAFF(centre\_id, class\_no, staff\_id, staff\_name, class\_leader, first\_aid\_certification)

#### Partial Dependencies:

staff\_id -> staff\_name, first\_aid\_certification

centre\_id -> centre\_name, centre\_street, centre\_town, centre\_post\_code

#### 2NF:

CLASS\_REPORT(centre\_id, class\_no, class\_duration, facility\_room\_no, start\_date\_time, num\_of\_sessions)

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

STAFF\_ENTITY(staff\_id, staff\_name, first\_aid\_certification)

CENTRE\_DETAILS(centre\_id, centre\_name, centre\_street, centre\_town, centre\_post\_code)

#### Transitive Dependencies:

No

#### 3NF:

CLASS\_REPORT(centre\_id, class\_no, class\_duration, facility\_room\_no, start\_date\_time, num\_of\_sessions)

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

STAFF\_ENTITY(staff\_id, staff\_name, first\_aid\_certification)

CENTRE\_DETAILS(centre\_id, centre\_name, centre\_street, centre\_town, centre\_post\_code)

### Full Dependencies:

centre\_id, class\_no -> class\_duration, facility\_room\_no, start\_date\_time, num\_of\_sessions

class\_no, staff\_id -> class\_leader, centre\_id

staff\_id -> staff\_name, first\_aid\_certification

centre\_id -> centre\_name, centre\_street, centre\_town, centre\_post\_code

### 2. Class Attendance Report

Sample 1:

#### Monash Movement Member Class Attendance Report

Centre ID 10  
Centre Name Clayton ARC Centre  
  
Class Number 123  
Class Type Spin  
Class Description Beginners Spin Training  
Facility Room No 5  
Start Date/Time 23 Aug 2021 18:00  
No of Sessions 4

Member No	Payment Date	Session Date				Total Attendance
		23 August	30 August	6 September	13 September	
12	20 August	Attended	Attended	Attended	Attended	4
31	10 August	Attended	Attended	Attended	Attended	4
54	22 August	Attended	Absent	Absent	Absent	1
123	10 August	Attended	Attended	Attended	Attended	3
256	21 August	Attended	Attended	Absent	Absent	2
453	10 August	Attended	Attended	Attended	Attended	4

### UNF:

CLASS\_ATTENDANCE\_REPORT(centre\_id, centre\_name, class\_number, class\_type, class\_descp, facility\_room\_no, start\_date, time\_start, num\_of\_session, (member\_no, date\_paid, (session\_date, ind\_attendance), total\_attendance))

### 1NF:

CLASS\_ATTENDANCE\_REPORT(centre\_id, centre\_name, class\_number, class\_type, class\_descp, facility\_room\_no, start\_date, time\_start, num\_of\_session)

FULL\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, date\_paid, total\_attendance)

IND\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, session\_date, ind\_attendance)

### Partial Dependencies:

centre\_id -> centre\_name

### 2NF:

CLASS\_ATTENDANCE\_REPORT(centre\_id, class\_number, class\_type, class\_descp, facility\_room\_no, start\_date, time\_start, num\_of\_session)

FULL\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, date\_paid, total\_attendance)

IND\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, session\_date, ind\_attendance)

CENTRE(centre\_id, centre\_name)

**Transitive Dependencies:**

No

**3NF:**

CLASS\_ATTENDANCE\_REPORT(centre\_id, class\_number, class\_type, class\_descp, facility\_room\_no, start\_date, time\_start, num\_of\_session)

FULL\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, date\_paid, total\_attendance)

IND\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, session\_date, ind\_attendance)

CENTRE(centre\_id, centre\_name)

**Total Dependencies:**

centre\_id, class\_number -> class\_type, class\_descp, facility\_room\_no, start\_date, time\_start, num\_of\_session

centre\_id, class\_number, member\_no -> date\_paid, total\_attendance

centre\_id, class\_number, member\_no, session\_date -> ind\_attendance

centre\_id -> centre\_name

**Attribute Synthesis** based on Sample 1 and Sample 2:**Collected 3NF Relations:**

1. CLASS\_REPORT(centre\_id, class\_no, class\_duration, facility\_room\_no, start\_date, time\_start, num\_of\_sessions)
2. CLASS\_STAFF(centre\_id, class\_no, staff\_id, class\_leader)
3. STAFF\_ENTITY(staff\_id, staff\_name, first\_aid\_certification)
4. CENTRE\_DETAILS(centre\_id, centre\_name, centre\_street, centre\_town, centre\_post\_code)
5. CLASS\_ATTENDANCE\_REPORT(centre\_id, class\_number, class\_type, class\_descp, facility\_room\_no, time\_date, time\_start, num\_of\_session)
6. FULL\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, date\_paid, total\_attendance)
7. IND\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, session\_date, ind\_attendance)
8. CENTRE(centre\_id, centre\_name)

**Synthesis Part:****1&5:**

CLASS\_ATTENDANCE\_REPORT(centre\_id, class\_no, class\_duration, class\_type, class\_descp, facility\_room\_no, start\_date, time\_start, num\_of\_sessions)

**2:**

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

**3:**

STAFF\_ENTITY(staff\_id, staff\_name, first\_aid\_certification)

**4 & 8:**

CENTRE\_DETAILS(centre\_id, centre\_name, centre\_street, centre\_town, centre\_post\_code)

**6:**

FULL\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, date\_paid,  
total\_attendance)

**7:**

IND\_ATTENDANCE\_REPORT(centre\_id, class\_number, member\_no, session\_date,  
ind\_attendance)