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_STAFFING(centre_id, centre_name, centre_street, centre_town, centre_postcode, class_number, class_duration, facility_room_no, class_start_datetime, class_no_sess, (staff_id, staff_name, class_staff_leader, staff_first_aid_certified))

1NF

CLASS_STAFFING(<u>centre_id</u>, <u>class_number</u>, centre_name, centre_street, centre_town, centre_postcode, class_duration, class_start_datetime, class_no_sess, facility_room_no)

STAFF(<u>staff_id</u>, staff_name, class_staff_leader, staff_first_aid_certified)

Partial Dependencies

centre_id -> centre_name, centre_street, centre_town, centre_postcode staff_id -> staff_name, staff_first_aid_certified

2NF

CENTRE_CLASS(<u>class_number</u>, <u>centre_id</u>, class_duration, class_start_datetime, class_no_sess, facility_room_no)

CENTRE (<u>centre_id</u>, centre_name, centre_street, centre_town, centre_postcode)

CLASS_STAFFING(<u>staff_id</u>, <u>class_number</u>, <u>centre_id</u>, class_staff_leader)

STAFF(<u>staff_id</u>. staff_name, staff_first_aid_certified)

Transitive dependencies

No transitive dependencies present

3NF

CENTRE_CLASS(<u>class_number</u>, <u>centre_id</u>, class_duration, class_start_datetime, class_no_sess, facility_room_no)

CENTRE (<u>centre_id</u>, centre_name, centre_street, centre_town, centre_postcode)

CLASS_STAFFING(<u>staff_id</u>, <u>class_number</u>, <u>centre_id</u>, class_staff_leader)

STAFF(<u>staff_id</u>. staff_name, staff_first_aid_certified)

Full Dependencies

class_number -> class_duration, class_start_datetime, class_no_sess

centre_id -> centre_name, centre_addr_street, centre_addr_town,
centre_addr_postcode

staff id -> staff name, staff first aid certified

staff_id, class_number, centre_id -> class_leader

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

Sample 2:

Monash Movement Member Class Attendance Report

Centre ID 10
Centre Name Clayton ARC Centre

Class Number 127

Class Type HIT

Class Description HIT Early AM Power Zone
Facility Room No 4
Start Date/Time 25 Aug 2021 06:00
No of Sessions 1

Member No	Payment Date	Session Date	Total Attendance
		25 August	
45	18 August	Attended	1
54	6 August	Absent	0
62	6 August	Absent	0
78	7 August	Attended	1
123	21 August	Attended	1
325	10 August	Absent	0

	NI	
u	IA	

SESSION(centre_id, centre_name, class_number, class_type, class_desc, facility_room_no, class_start_datetime, class_no_sess, (member_no, payment_date, (session_date, session_attendance), payment_total_addend))

1NF

CENTRE_CLASS(<u>centre_id</u>, centre_name, <u>class_number</u>, class_type, class_desc, facility_room_no, class_start_datetime, class_no_sess)

PAYMENT(<u>member no, centre id, class number, payment_date, payment_total_addend</u>)

SESSION(member no, centre id, class number, session date, session attendance)

Partial Dependencies

centre id -> centre name

2NF

CENTRE_CLASS(<u>class_number</u>, <u>centre_id</u>, class_type, class_desc, class_start_datetime, class_no_sess, facility_room_no)

CENTRE (centre id, centre name)

PAYMENT(member no, centre id, class number, payment date, payment total addend)

SESSION(member no, centre id, class number, session date, session_attendance)

Transitive dependencies

No transitive dependencies present

3NF

CENTRE_CLASS(<u>class_number</u>, <u>centre_id</u>, class_type, class_desc, class_start_datetime, class_no_sess, facility_room_no)

CENTRE (<u>centre_id</u>, centre_name)

PAYMENT(<u>member_no</u>, <u>centre_id</u>, <u>class_number</u>, payment_date, payment_total_addend)

SESSION(member no, centre id, class number, session date, session_attendance)

Full Dependencies

class_number , centre_id -> class_type, class_desc, class_start_datetime,
class_sess_no, facility_room_no

3. Attribute synthesis

ALL ENTITIES

Class staffing report entities

CENTRE_CLASS(<u>class_number</u>, <u>centre_id</u>, class_duration, class_start_datetime, class_no_sess, facility_room_no)

CENTRE (centre id, centre name, centre street, centre town, centre postcode)

CLASS_STAFFING(staff_id, class_number, centre_id, staff_class_leader)

STAFF(<u>staff_id</u>. staff_name, staff_first_aid_certified)

Class attendance report entities

CENTRE_CLASS(<u>class_number</u>, <u>centre_id</u>, class_type, class_desc, class_start_datetime, class_no_sess, facility_room_no)

CENTRE (centre id, centre name)

PAYMENT(<u>member_no, centre_id, class_number, payment_date, payment_total_addend)</u>

SESSION(member no, centre id, class number, session date, session_attendance)

Attribute Synthesis

1. CLASS entities from both of the normalized forms can be merged since their primary key is identical.

2. CENTRE entities can be merged as they have the same primary key

CENTRE_CLASS(<u>class_number</u>, <u>centre_id</u>, class_type, class_desc, class_duration, class_start_datetime, class_no_sess, facility_room_no)

CENTRE (<u>centre_id</u>, centre_name, centre_street, centre_town, centre_postcode)