

Monash Movement Class Staffing Report

UNF

CLASS(centre_id, centre_name, centre_street, centre_town, centre_postcode, class_no, class_duration, facility_roomno, class_start_dtime, class_no_sessions, (staff_id, staff_fname, staff_lname, staff_class_leader, staff_firstaid_status))

1NF

CLASS(centre_id, centre_name, centre_street, centre_town, centre_postcode, class_no, class_duration, facility_roomno, class_start_dtime, class_no_sessions)

STAFF_CLASS (class_no, staff_id, staff_fname, staff_lname, staff_class_leader, staff_firstaid_status, centre_id) **Allow (class_no, staff_id, centre_id) as PK although not minimal**

Partial Dependencies:

centre_id → centre_name, centre_street, centre_town, centre_postcode

staff_id → staff_fname, staff_lname, staff_firstaid_status

2NF

CENTRE(centre_id, centre_name, centre_street, centre_town, centre_postcode)

CLASS(centre_id, class_no, class_duration, facility_roomno, class_start_dtime, class_no_sessions)

STAFF(staff_id, staff_fname, staff_lname, staff_firstaid_status)

STAFF_CLASS (class_no, staff_id, staff_class_leader, centre_id)

Transitive Dependencies:

No Transitive Dependencies

3NF

CENTRE(centre_id, centre_name, centre_street, centre_town, centre_postcode)

CLASS(centre_id, class_no, class_duration, facility_roomno, class_start_dtime, class_no_sessions)

STAFF(staff_id, staff_fname, staff_lname, staff_firstaid_status)

STAFF_CLASS (class_no, staff_id, staff_class_leader, centre_id)

Full Dependencies:

centre_id → centre_name, centre_street, centre_town, centre_postcode

centre_id, class_no → class_duration, facility_roomno, class_start_dtime, class_no_sessions

staff_id → staff_fname, staff_lname, staff_firstaid_status

class_no, staff_id → staff_class_leader, centre_id

Monash Movement Member Class Attendance Report

UNF:

CLASS(centre_id, centre_name, class_no, class_type, class_desc, facility_roomno, class_start_dtime, class_no_sessions, (member_no, enrol_paid_date, (sa_date, sa_status), enrol_total_attendance))

1NF

CLASS(centre_id, centre_name, class_no, class_type, class_desc, facility_roomno, class_start_dtime, class_no_sessions)

ENROLMENT(centre_id, class_no, member_no, enrol_paid_date, enrol_total_attendance)

SESSION_ATTENDANCE(centre_id, class_no, member_no, sa_date, sa_status)

Partial Dependencies:

centre_id → centre_name

2NF

CENTRE(centre_id, centre_name)

CLASS(centre_id, class_no, class_type, class_desc, facility_roomno, class_start_dtime, class_no_sessions)

ENROLMENT(centre_id, class_no, member_no, enrol_paid_date, enrol_total_attendance)

SESSION_ATTENDANCE(centre_id, class_no, member_no, sa_date, sa_status)

Transitive Dependencies:

No Transitive Dependencies

3NF

CENTRE(centre_id, centre_name)

CLASS(centre_id, class_no, class_type, class_desc, facility_roomno, class_start_dtime, class_no_sessions)

ENROLMENT(centre_id, class_no, member_no, enrol_paid_date, enrol_total_attendance)

SESSION_ATTENDANCE(centre_id, class_no, member_no, sa_date, sa_status)

FULL Dependencies:

centre_id, → centre_name

centre_id, class_no, → class_type, class_desc, facility_roomno, class_start_dtime,
class_no_sessions)

centre_id, class_no, member_no, → enrol_paid_date, enrol_total_attendance

centre_id, class_no, member_no, sa_date, → sa_status

Attribute Synthesis:

Collected 3NF

1. CENTRE(centre_id, centre_name, centre_street, centre_town, centre_postcode)
2. CLASS(centre_id, class_no, class_duration, facility_roomno, class_start_dtime,
class_no_sessions)
3. STAFF(staff_id, staff_fname, staff_lname, staff_firstaid_status)
4. STAFF_CLASS (class_no, staff_id, staff_class_leader, centre_id)
5. CENTRE(centre_id, centre_name)
6. CLASS(centre_id, class_no, class_type, class_desc, facility_roomno, class_start_dtime,
class_no_sessions)
7. ENROLMENT(centre_id, class_no, member_no, enrol_paid_date,
enrol_total_attendance)
8. SESSION_ATTENDANCE(centre_id, class_no, member_no, sa_date, sa_status)

Combine 1 and 5

Combine 2 and 6

Final 3NF

CENTRE(centre_id, centre_name, centre_street, centre_town, centre_postcode)

CLASS(centre_id, class_no, class_duration, class_type, class_desc, facility_roomno,
class_start_dtime, class_no_sessions)

STAFF(staff_id, staff_fname, staff_lname, staff_firstaid_status)

STAFF_CLASS (class_no, staff_id, staff_class_leader, centre_id)

ENROLMENT(centre_id, class_no, member_no, enrol_paid_date, enrol_total_attendance)

SESSION_ATTENDANCE(centre_id, class_no, member_no, sa_date, sa_status)