Databases Units

Author: FIT Database Teaching Team

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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(<u>centre_id</u>, centre_name, centre_street, centre_town, centre_postcode, <u>class_no</u>, class_duration, facility_roomno, class_start_dtime, class_no_sessions)

STAFF_CLASS (<u>class_no</u>, <u>staff_id</u>, staff_fname, staff_lname, staff_class_leader, staff_firstaid_status, centre_id) Allow (<u>class_no</u>, <u>staff_id</u>, <u>centre_id</u>) as PK although not minimal

Partial Dependencies:

centre_id → centre_name, centre_street, centre_town, centre_postcode staff id → staff fname, staff Iname, staff firstaid status

2NF

CENTRE(<u>centre_id</u>, centre_name, centre_street, centre_town, centre_postcode) CLASS(<u>centre_id</u>, <u>class_no</u>, class_duration, facility_roomno, class_start_dtime, class_no_sessions)

STAFF(<u>staff_id</u>, staff_fname, staff_lname, staff_firstaid_status)
STAFF_CLASS (<u>class_no, staff_id</u>, staff_class_leader, centre_id)

Transitive Dependencies:

No Transitive Dependencies

3NF

CENTRE(<u>centre_id</u>, centre_name, centre_street, centre_town, centre_postcode) CLASS(<u>centre_id</u>, <u>class_no</u>, class_duration, facility_roomno, class_start_dtime, class_no_sessions)

STAFF(<u>staff_id</u>, staff_fname, staff_lname, staff_firstaid_status) STAFF_CLASS (<u>class_no</u>, <u>staff_id</u>, staff_class_leader, centre_id)

Full Dependencies:

centre_id \rightarrow centre_name, centre_street, centre_town, centre_postcode centre_id, class_no \rightarrow class_duration, facility_roomno, class_start_dtime, class_no_sessions staff_id \rightarrow staff_fname, staff_lname, staff_firstaid_status class_no, staff_id \rightarrow staff_class_leader, centre_id

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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(<u>centre_id</u>, centre_name, <u>class_no</u>, 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(<u>centre_id</u>, <u>class_no</u>, class_type, class_desc, facility_roomno, class_start_dtime, class_no_sessions)

ENROLMENT(<u>centre_id</u>, <u>class_no</u>, <u>member_no</u>, 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(<u>centre_id</u>, <u>class_no</u>, 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

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centre_id, class_no, \rightarrow 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(<u>centre_id</u>, <u>class_no</u>, 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(<u>centre_id</u>, <u>class_no</u>, class_type, class_desc, facility_roomno, class_start_dtime, class_no_sessions)
- ENROLMENT(<u>centre_id</u>, <u>class_no</u>, <u>member_no</u>, 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(<u>centre_id</u>, <u>class_no</u>, 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(<u>centre_id</u>, <u>class_no</u>, <u>member_no</u>, enrol_paid_date, enrol_total_attendance)

SESSION_ATTENDANCE(<u>centre_id</u>, <u>class_no</u>, <u>member_no</u>, <u>sa_date</u>, sa_status)