

## Team 7E CS605 - HB2

### Phase 3 SQL for Views

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CREATE VIEW Q1A AS
select distinct
    membership_purchase.client_number, count(membership_purchase_id) CountMemberships,
    sum(membership_payment) SumMembershipPmts
from membership_purchase
group by membership_purchase.client_number
order by membership_purchase.client_number;

CREATE VIEW Q1B AS
select distinct
    enrollment_request.client_number, count(reference_number) CoursesEnrolled, sum(payment)
    CoursePayment
from enrollment_request
where enrollment_request.status = 'e'
group by enrollment_request.client_number
order by enrollment_request.client_number;

CREATE VIEW MOST_VALUABLE_CLIENT AS
select distinct
    client.client_number "Client Number", client.first_name "Client Name",
    coalesce(q1a.countmemberships, 0) "Membership Count", coalesce(q1a.summembershippmts, 0)
    "Total Membership Payments", coalesce(q1b.coursesenrolled, 0) "Total Courses Enrolled",
    coalesce(q1b.coursepayment, 0) "Total Enrollment Fees"
from client, q1a, q1b
where q1a.client_number (+) = client.client_number
    and q1b.client_number (+) = client.client_number
order by client.client_number;

CREATE VIEW MEMBERSHIPSFORTOPCLIENTS AS
select
    first_name "Client Name",
    client.client_number "Client Number",
    membership_code "Membership Category",
    date_of_assignment as "Membership Start Date",
    date_of_assignment+365 as "Membership End Date"
from client, membership_purchase
where client.client_number = membership_purchase.client_number
    and client.client_number in
        (select "Client Number" from MOST_VALUABLE_CLIENT where
            "Total Enrollment Fees" > (select AVG("Total Enrollment Fees") from
                MOST_VALUABLE_CLIENT))
order by client.client_number;

CREATE VIEW ENROLLMENTPATTERN AS
SELECT
    client_number, request_date_time, status
FROM enrollment_request;

CREATE VIEW QUES4_ENROLL_WAITLST AS
select course.unique_code,
    course.course_level,
    enrollment_request.request_date_time,
    enrollment_request.status,
    enrollment_request.payment,
    count(enrollment_request.client_number) client_Number
from class
join course on class.unique_code = course.unique_code
join enrollment_request on class.reference_number = enrollment_request.reference_number
group by course.unique_code,
    course.course_level,
    enrollment_request.request_date_time,
    enrollment_request.status,
    enrollment_request.payment
order by enrollment_request.status, count(enrollment_request.client_number) DESC;
```