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/*
1. Create a dashboard which depicts the number of students who are
    currently studying and dropped out of university from each major.
2. Who should be invited to an Alumni Happy Hour in Texas?
3. Who should receive the most recent copy of INAG News?
   What type of the listservs are the alumni, prospectives, and students
    currently enrolled right now?
   What is the latest communication date of each event type?
6. How many communications were sent for each event. How many have been
    received and how many are yet to be sent?
* /
USE students communication;
/* Ouestion 1 */
DROP VIEW IF EXISTS student summary view;
CREATE VIEW student summary view AS
WITH ongoing AS (
     SELECT major
                 , COUNT(student id) as ongoing std
     FROM students
     WHERE status != 'DropOut'
     GROUP BY major
),
dropout as (
     SELECT major
                 , COUNT(student_id) as dropouts
                 , COUNT (CASE WHEN description = 'Personal' THEN
student id END) AS personal drp
                 , COUNT (CASE WHEN description = 'Financial' THEN
student id END) AS financial drp
                , COUNT (CASE WHEN description = 'Academic' THEN
student id END) AS academic drp
     FROM students
     WHERE status = 'DropOut'
     GROUP BY major
),
totals as (
     SELECT major
                 , COUNT(student id) as total students
     FROM students
     GROUP BY major
)
SELECT t.major as "Major"
     , total students as "Total Students"
    , ongoing std as "Ongoing Students"
    , dropouts as "Dropout Students"
    , personal_drp as "Personal Dropouts"
    , financial drp as "Financial Dropouts"
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, academic drp as "Academic Dropouts"
FROM totals t
LEFT JOIN ongoing o ON t.major = o.major
LEFT JOIN dropout d ON t.major = d.major
ORDER BY total students DESC, ongoing std DESC;
SELECT * FROM student summary view;
/* Question 2 */
DELIMITER //
DROP PROCEDURE IF EXISTS GetAlumniByState //
CREATE PROCEDURE GetAlumniByState(IN state name VARCHAR(45))
BEGIN
    SELECT DISTINCT first name as "First Name"
    , last name as "Last Name"
    , personal_email as "Personal Email"
    , address line 1 as "Address Line 1"
    , address line 2 as "Address Line 2"
    , city as "City"
    , state as "State"
    , country as "Country"
    , zip as "Zip Code"
    FROM people p
    JOIN alumni al ON p.id = al.id
    LEFT JOIN addresses a ON p.address id = a.address id
    WHERE a.good address = 1 AND a.state = state name;
END //
DELIMITER ;
CALL GetAlumniByState('Texas');
/* Question 3 */
DROP VIEW IF EXISTS INAG_address_details;
CREATE VIEW INAG address details AS
WITH student details AS (
    SELECT
        p.first name,
       p.last name,
       a. address line 1,
        a. address line 2,
        a. city,
        a. state,
        a. country,
        a. zip
    FROM people p
    JOIN students s ON s.id = p.id
    LEFT JOIN addresses a ON a.address id = s.current address id
    WHERE s.status != 'DropOut' AND a.good_address = 1
),
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person details AS (
    SELECT
       p.first name,
       p.last name,
       a. address line 1,
        a. address line 2,
       a. city,
       a. state,
       a. country,
        a. zip
    FROM people p
    LEFT JOIN addresses a ON a.address id = p.address id
    WHERE p.status IN ('Alumni', 'Prospective Student') AND a.good address
= 1
)
SELECT
FROM (
    SELECT first name, last name, address line 1, address line 2, city,
state, country, zip
    FROM student details sd
    UNION ALL
    SELECT first name, last name, address line 1, address line 2, city,
state, country, zip
    FROM person details pd
) AS det
ORDER BY first_name ASC;
SELECT * FROM INAG address details;
/* Question 4 */
DROP VIEW IF EXISTS enrollment summary view;
CREATE VIEW enrollment summary view AS
SELECT listserv description
    , COUNT(CASE WHEN status = 'Prospective Student' THEN p.id END) AS
"Prospective Students Enrolled"
    , COUNT(CASE WHEN status = 'Student' THEN p.id END) AS "Students
Enrolled"
    , COUNT(CASE WHEN status = 'Alumni' THEN p.id END) AS "Alumni
Enrolled"
    , COUNT(CASE WHEN status = 'Dropout' THEN p.id END) AS "Dropouts
Enrolled"
FROM listservs l
JOIN people listservs pl ON 1.listserv id = pl.listserv id
JOIN people p ON p.id = pl.people id
GROUP BY listserv_description WITH ROLLUP
ORDER BY listserv description DESC;
SELECT * FROM enrollment summary view;
/* Question 5 */
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DROP VIEW IF EXISTS event lastest communication;
CREATE VIEW event lastest communication AS
SELECT event description AS "Event Description"
     , MAX(comm date) AS "Latest Communication Time"
FROM events e
LEFT JOIN communications c ON e.event id = c.event id
GROUP BY event description
ORDER BY MAX(comm date) DESC;
SELECT * FROM event lastest communication;
/* Question 6 */
DROP VIEW IF EXISTS event communications view;
CREATE VIEW event communications view AS
SELECT event_description AS "Event Description",
       COUNT (comm id) AS "Total Communications Planned",
       COUNT(CASE WHEN comm status = 'Sent' THEN comm id END) AS
"Communications Sent",
      COUNT(CASE WHEN comm_status = 'Not Sent' THEN comm_id END) AS
"Communications Not Sent",
      COUNT(CASE WHEN comm_status = 'Received' THEN comm_id END) AS
"Communications Received"
FROM events e
LEFT JOIN communications c ON e.event id = c.event id
GROUP BY event description;
SELECT * FROM event_communications_view;
```