GLOBAL STUDENT MIGRATION DATA ANALYSIS

PROJECT GOALS

EXAMINE THE PREFERED STUDENT CHOICES AND RELATED FACTORS.

PLACEMENT STATUS OF DIFFERENT UNIVERSITY

FACTORS RESPONSIBLE FOR SALARY

VISA_STATUS

TESTS TAKEN

Most prefered university

```sql
SELECT
    university_name,
    destination_country,
    COUNT(student_id) AS No_of_student
FROM
    global_student_migration
GROUP BY university_name , destination_country
ORDER BY COUNT(student_id) DESC;
```

university_name	destination_country	No_of_student
University of Stuttgart	Germany	90
Zayed University	UAE	89
Moscow Institute of Physics and Technology	Russia	87
Manipal Academy Dubai	UAE	81
Heriot-Watt Dubai	UAE	80
Bauman Moscow State Technical University	Russia	80
Rhodes University	South Africa	79
Heidelberg University	Germany	78
UCLA	USA	77
Ãƒâ€¦bo Akademi University	Finland	76
Novosibirsk State University	Russia	76
University of Johannesburg	South Africa	75
Khalifa University	UAE	75
Humboldt University	Germany	75
University of Dubai	UAE	74
National University of Ireland Galway	Ireland	74
Saint Petersburg State University	Russia	74
Technical University of Munich	Germany	73

Most prefered university based on the courses offered

```sql
SELECT
    university_name,
    course_name,
    COUNT(student_id) AS No_of_student
FROM
    global_student_migration
GROUP BY university_name , course_name
ORDER BY COUNT(student_id) DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conte

university_name	course_name	No_of_student
Khalifa University	Data Science	12
University of Johannesburg	Business Administration	12
Manipal Academy Dubai	Civil Engineering	11
Middlesex University Dubai	Electrical Engineering	11
Rhodes University	Psychology	11

Top 5 courses with shortest study duration

```sql
SELECT
    course_name,
    AVG(graduation_year - year_of_enrollment) AS study_duration
FROM
    global_student_migration
GROUP BY course_name
ORDER BY study_duration asc limit 5;
```

Result Grid | Filter Rows:

course_name	study_duration
Civil Engineering	1.9254
Business Administration	1.9315
Mechanical Engineering	1.9672
Biotechnology	1.9735
Architecture	1.9851

Most preferred course over the years

```sql
SELECT
    year_of_enrollment, course_name, total
FROM
    (select year_of_enrollment, course_name, count(student_id) as total,
    rank() over(partition by year_of_enrollment order by count(student_id) desc) as rn
    from global_student_migration
    GROUP BY year_of_enrollment, course_name) as a
where rn=1
ORDER BY  year_of_enrollment ;
```

year_of_enrollment	course_name	total
2019	Architecture	79
2020	Law	80
2021	Psychology	82
2022	Law	80
2023	Data Science	89

Courses with highest placement

```sql
SELECT
    course_name, COUNT(student_id)
FROM
    global_student_migration
WHERE
    placement_status = 'Placed'
GROUP BY course_name
ORDER BY COUNT(student_id) DESC;
```

course_name	count(student_id)
Data Science	198
Electrical Engineering	182
Business Administration	173
Mechanical Engineering	169
Political Science	168
Finance	166
Computer Science	165
Economics	165
Design	165
Psychology	163
Architecture	161
Medicine	161
Law	160
Civil Engineering	159
Biotechnology	154

Top companies based on branch for placement

```sql
SELECT
    placement_company, course_name, COUNT(student_id) AS count
FROM
    global_student_migration
WHERE
    placement_company <> 'N/A'
GROUP BY placement_company , course_name
ORDER BY count DESC;
```

placement_company	course_name	count
Goldman Sachs	Electrical Engineering	24
Microsoft	Electrical Engineering	22
Google	Business Administration	21
Microsoft	Political Science	21
Siemens	Finance	19
Microsoft	Law	19
Tesla	Psychology	19
Facebook	Political Science	19
Intel	Business Administration	19
Intel	Computer Science	19
Amazon	Data Science	19
Amazon	Business Administration	18
SAP	Data Science	18
IBM	Data Science	18
Microsoft	Biotechnology	18
Amazon	Electrical Engineering	17

AVERAGE STARTING SALARY BASED ON

Destination_country

```sql
SELECT
    destination_country,
    ROUND(AVG(starting_salary_usd), 2) AS AVG_SALARY
FROM
    global_student_migration
GROUP BY destination_country
ORDER BY AVG_SALARY DESC ;
```

destination_country	AVG_SALARY
Ireland	46918.69
UK	46569.41
India	45986.46
USA	45718.22
Russia	45668.25

Course_name

```sql
SELECT
    course_name,
    ROUND(AVG(starting_salary_usd), 2) AS AVG_SALARY
FROM
    global_student_migration
GROUP BY course_name
ORDER BY AVG_SALARY DESC ;
```

course_name	AVG_SALARY
Business Administration	50451.08
Medicine	48222.67
Data Science	48211.87
Economics	46879.62
Biotechnology	45622.44
Finance	45452.09
Electrical Engineering	45221.92
Computer Science	44112.93

University

```sql
SELECT
    university_name,
    ROUND(AVG(starting_salary_usd), 2) AS AVG_SALARY
FROM
    global_student_migration
GROUP BY university_name
ORDER BY AVG_SALARY DESC ;
```

university_name	AVG_SALARY
Queen's University	59257.85
University of Birmingham	57811.64
NIT Trichy	56263.18
National University of Ireland Galway	54689.78
UC Berkeley	54455.87

The top 5 highest starting salary and their gpa

```sql
SELECT
    university_name,
    course_name,
    gpa_or_score,
    starting_salary_usd
FROM
    global_student_migration
WHERE
    placement_status = 'Placed'
GROUP BY university_name , course_name , gpa_or_score , starting_salary_usd
ORDER BY starting_salary_usd DESC
LIMIT 5;
```

university_name	course_name	gpa_or_score	starting_salary_usd
Khalifa University	Civil Engineering	3.99	149932
University of Cape Town	Biotechnology	3.32	149910
Imperial College London	Political Science	3.38	149899
University College Cork	Medicine	3.8	149768
University of Cape Town	Political Science	2.99	149553

Average gpa of placed student

```sql
SELECT
    ROUND(AVG(gpa_or_score))
FROM
    global_student_migration
WHERE
    placement_status = 'Placed';
```

ROUND(AVG(gpa_or_score))
3

Segregate placed student based on their visa_status

```sql
SELECT
    visa_status, COUNT(student_id) AS Count
FROM
    global_student_migration
WHERE
    placement_status = 'Placed'
GROUP BY visa_status
ORDER BY Count DESC;
```

visa_status	Count
Schengen Student Visa	429
Tier 4	426
F1	423
J1	416
Student Visa	413
Study Permit	402

Possible visa_status post graduation and the number of student under each category

```sql
SELECT
    post_graduation_visa, COUNT(student_id)
FROM
    global_student_migration
GROUP BY post_graduation_visa
ORDER BY COUNT(student_id) DESC;
```

post_graduation_visa	COUNT(student_id)
Blue Card	1029
Work Permit	1027
OPT	1012
Post-Study Visa	982
PSW	950

Percentage of students received scholarships

```sql
SELECT
    (SELECT
            COUNT(student_id)
        FROM
            global_student_migration
        WHERE
            scholarship_received = 'Yes') / COUNT(student_id) * 100 AS percentage
FROM
    global_student_migration;
```

Result Grid
percentage
51.5400

If there is a relation between scholarship and highest_salary

```sql
SELECT
    university_name,
    course_name,
    starting_salary_usd,
    scholarship_received
FROM
    global_student_migration
ORDER BY starting_salary_usd DESC
LIMIT 10;
```

university_name	course_name	starting_salary_usd	scholarship_received
Khalifa University	Civil Engineering	149932	Yes
University of Cape Town	Biotechnology	149910	No
Imperial College London	Political Science	149899	No
University College Cork	Medicine	149768	Yes
University of Cape Town	Political Science	149553	Yes
Trinity College Dublin	Architecture	149547	Yes
Simon Fraser University	Architecture	149544	No
Lomonosov Moscow State University	Law	149522	No
IIT Delhi	Architecture	149470	No
University of Helsinki	Design	149426	Yes

Most commonly used language tests to get into college

```sql
SELECT
    language_proficiency_test, COUNT(student_id) AS Count
FROM
    global_student_migration
GROUP BY language_proficiency_test
ORDER BY Count DESC;
```

language_proficiency_test	Count
Duolingo	1030
IELTS	1005
PTE	999
TOEFL	984
None	982

The count of reasons for enrollment

```sql
SELECT
    enrollment_reason, COUNT(student_id)
FROM
    global_student_migration
GROUP BY enrollment_reason
ORDER BY COUNT(student_id) DESC;
```

enrollment_reason	count(student_id)
Quality of Life	1015
Higher Ranking	1004
Scholarship	1001
Job Opportunities	991
Political Stability	989

DATA INSIGHTS:

- The data analysis helped in understanding the choice of university, preferred courses, and also helped us understand the trend over the years.

- Understand the impact of duration of course on choices.

- The trend of placements with respect to courses.

- The trend of companies recruiting for a particular course.

- The salary expectations from university , course and relation with scholarship .

- Effect of the type of visas on placement.

- Effect of scholarship on placements.

- Reason for migration.

- Language tests appeared.