Team Members :

1) Mohammed Hamdy Al-Afifi **(Team Leader)**

2) Ahmed Ateya

3) Kirolos Magdy

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Scenario :

The Examination System for the Information Technology Institute (ITI) is a comprehensive solution designed to manage and streamline the examination process for the institute. The system is specifically developed to satisfy the needs of the ITI, which consists of multiple branches, each with a unique ID, city, manager_id, date_of_opening.

Each branch hosts number of tracks. Each track has a unique ID, name, type(3 or 9). It is important to note that a track must exist in one or more branches, and a branch may contain one or more tracks.

To apply to any track, applicant has to submit his info which consist of name, military status, martial status, year of graduation, university, faculty, and grade. Each applicant is identified by applicant_id and intake number.
Application progress is tracked by English score, IQ score, technical and soft skills interviews score, and final interview score.

Accepted applicants become students in one of the tracks they chose according to the previous criteria. Students are identified by unique ids dependent on applicant id and each student has number of KPIs which are one freelance job, one certificate, two courses, labs evaluation and attendance.
Each track is identified by a unique id, name, start date, end date, type, and super visor. Each track contains number of courses identified by ids and each has a duration and assessment type and an instructor, and each course consists of multiple topics.

At the end of a course, enrolled students will take an exam. The exam consists of a unique ID, number of multiple-choice questions (MCQ), and number of true/false questions. The exam is generated by selecting random questions, group of answers (A,B, C, D), and the model answer. It is important to note that for each course, there is a related question table that contains many questions, and each question belongs to only one course. Each student's answers and grades must
be recorded after taking the generated exam.

Each branch has a number of facilities and employees. Each facility is identified by a unique id, name, and type. And employees are identified by id, name, dob, phone number, martial status, salary, job_id and job_title.

Each employee has health insurance that covers clinics and has information about diagnosis and sick leave.

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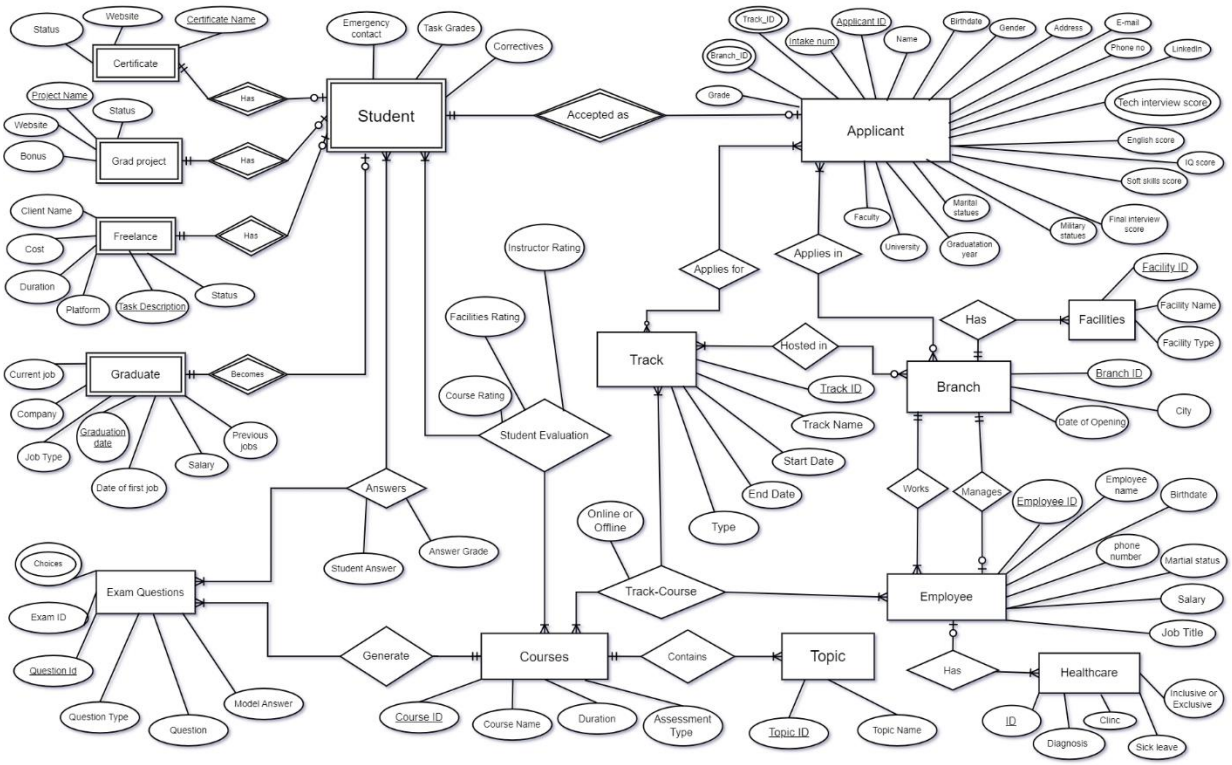
ERD



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Mapping

1- applicants (applicant_id, student_name, gender, birth_date, address, email, phone_number, linkedin_account, military_status, martial_status, faculty, university, graduation_year, grade)

2- applicant_intake(applicant_id, intake number, english_score, iq_score, soft_skills_interview_score, final_interview_score)

3- applicant_track_branch_techInterview (applicant_id FK, intake number FK, track_id Fk, branch_id FK, tech_interview_score)

4- exam_questions (question_id, exam_id, question, type, model_answer, course_id FK)

5- question_choices (question_id FK, choice)

6- courses (course_id, course_name, duration, assessment_type)

7- topics (topic_id, topic_name, course_id FK)

8- employees (employee_id, employee_name, date_of_birth, phone_number, martial_status, salary, job_title, branch_id FK)

9- healthcare (visit_id, diagnosis, clinic, inclusive/exclusive, sick_leave, employee_id FK)

10- branches (branch_id, city, opening_date, manager_id FK)

11- facilities (facility_id, facility_name, facility_type, branch_id FK)

12- tracks (track_id, track_name, start_date, end_date, type, supervisor_id FK)

13- students (applicant_id FK, intake_number FK, emergency_contact, tasks_grade, correctives)

14- graduates (applicant_id FK, intake_number FK, graduation_date FK, current_job, company, job_type, previous_job, employment_date, salary)

15- graduation projects (student_id FK, intake_number FK, project_name, bonus, project_grade, status)

16- certificates (student_id FK, intake_number FK, certificate_name, platform, status)

17- freelance (student_id FK, intake_number FK, status, task_description, platform, duration, cost, client_name)

18- Applicant_track (Applicant_id FK, track_id FK)

19- Applicant_branch (Applicant_id FK, branch_id FK)

20- track_branch (track_id FK, branch_id FK)

21- student_answers (student_id FK, intake_number FK, question_id FK, student_answer, answer_grade)

22- student_evaluation (student_id FK, intake_number FK, course_id FK, course_rating, facility_rating, instructor_rating)

23- track_course_instructor (track_id FK, course_id FK, instructor_id FK, online_or_offline)

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Data Dictionary :

table	descripion
applicants	A table that stores personal information about individuals who have applied for a program.

column	description	data type
applicant_id	The national identification number of the applicant. A unique identifier for each applicant in the database.	numeric(18,0)
student_name	The full name of the applicant.	nvarchar(50)
gender	The gender of the applicant.	nvarchar(10)
birth_date	The date of birth of the applicant.	date
address	The email address of the applicant.	nvarchar(50)
email	The email address of the applicant.	nvarchar(50)
phone_number	The phone number of the applicant.	nvarchar(15)
linkedin_account	The LinkedIn profile of the applicant (if exists).	nvarchar(100)
military_status	The military status of the applicant (e.g. completed, postponed, exempted).	nvarchar(20)
martial_status	The marital status of the applicant.	nvarchar(30)
faculty	The faculty that the applicant graduated from.	nvarchar(100)
university	The university that the applicant graduated from.	nvarchar(50)
graduation_year	The year that the applicant graduated or expects to graduate from university.	int
grade	The grade of the applicant (e.g. excellent, very good, good).	nvarchar(10)

table	descripion
applicant_intake	A table that stores information about an applicant's performance during the application cycle.

column	description	data type
applicant_id	A foreign key that references the "applicant_id" column in the "applicants" table.	numeric(18,0)
intake_number	A number that identifies the intake the applicant applied in.	int
english_score	The applicant's score on an English language proficiency test.	int
iq_score	The applicant's score on an IQ test.	int
soft_skills_interview_score	The applicant's score on an interview focused on evaluating their soft skills.	int
final_interview_score	The applicant's score on the final interview in the application process.	int

table	descripion
applicant_track_branch_techInterview	A table that stores information about an applicant's performance in a technical interview for a specific career track or location.

column	description	data type
applicant_id	A foreign key that references the "applicant_id" column in the "applicants" table.	numeric(18,0)
intake number	A number that identifies the intake the applicant applied in.	int
track_id	A foreign key that references the "track_id" column in a tracks table that stores information about different career tracks.	int
branch_id	A foreign key that references the "branch_id" column in a branches table that stores information about different branches or locations of the organization.	int
tech_interview_score	The applicant's score on a technical interview.	int

table	descripion
description of table	A table that stores information about questions that appear on exams of different courses.

column	description	data type
question_id	A unique identifier for each question in the database.	int
exam_id	the number of exam in which a question generated.	int
question	The text of the question itself.	text
type	The type of the question, such as multiple-choice, or	nvarc

	true/false.	har(30)
model_answer	The model answer or expected answer for the question.	text
course_id	A foreign key that references the "course_id" column in curses table that stores information about each course.	int

table	descripion
question_choices	A table that stores information about the answer choices for questions on exams.

column	description	data type
question_id	A foreign key that references the "question_id" column in the "exam_questions" table.	int
choice	The letter of an answer choice for the question on an exam. (e.g. a,b,c, or d).	char(1)
choice_value	The text of an answer choice for a question on an exam.	nvarchar(25)

table	descripion
courses	A table that stores information about courses offered by ITI.

column	description	data type
course_id	A unique identifier for each course in the database.	int
course_name	The name or title of the course.	nvarchar(70)
duration	The length of the course, measured in days.	int
assessment_type	The type of assessment used to evaluate student performance in the course. (e.g. exam, tasks, or attendance).	nvarchar(30)

table	descripion
topics	A table that stores information about the topics covered in each course.

column	description	data type
topic_id	A unique identifier for each topic in the database.	int
topic_name	The name or title of the topic.	nvarchar(100)

course_id	A foreign key that references the "course_id" column in the "courses" table.	int

table	descripion
employees	A table that stores information about employees in the organization.

column	description	data type
employee_id	A table that stores information about employees in an organization.	numeric(18,0)
employee_name	The name of the employee.	nvarchar(50)
date_of_birth	The date of birth of the employee.	date
phone_number	The phone number of the employee.	nvarchar(15)
martial_status	The marital status of the employee, such as single, married, or divorced.	nvarchar(10)
salary	The salary or compensation of the employee.	int
job_title	The job title or position of the employee.	nvarchar(50)
branch_id	A foreign key that references the "branch_id" column in a branches table that stores information about different branches or locations of the organization.	int

table	descripion
healthcare	A table that stores information about employee visits to healthcare clinics.

column	description	data type
visit_id	A unique identifier for each visit in the database.	int
diagnosis	The diagnosis or medical condition for which the employee sought treatment.	nvarchar(100)
clinic	The name or identifier of the healthcare clinic or facility where the employee made the visit.	nvarchar(100)
inclusive/exclusive	A flag indicating whether the visit was inclusive or exclusive of the employee's insurance plan.	nvarchar(1

		0)
sick_leave	the number of days of sick leave recommended or taken as a result of the visit.	int
employee_id	A foreign key that references the "employee_id" column in the "employees" table.	numeric(18,0)

table	descripion
branches	A table that stores information about the different branches or locations of the organization.

column	description	data type
branch_id	A unique identifier for each branch in the database.	int
city	The city where the branch is located.	nvarchar(50)
opening_date	The date when the branch was opened.	date
manager_id	A foreign key that references the "employee_id" column in the "employees" table. This column indicates the manager of the branch.	numeric(18,0)

table	descripion
facilities	A table that stores information about the facilities or amenities available at each branch or location of an organization.

column	description	data type
facility_id	A unique identifier for each facility in the database.	int
facility_name	The name or identifier of the facility.	nvarchar(30)
facility_type	`The type of facility, such as hall, lab, services, etc.	nvarchar(30)
branch_id	A foreign key that references the "branch_id" column in the "branches" table.	int

table	descripion
tracks	A table that stores information about tracks or projects in an organization.

column	description	data type

track_id	A unique identifier for each track in the database.	int
track_name	The name or title of the track.	nvarchar(50)
start_date	The start date of the track.	date
end_date	The end date of the track.	date
type	The type of track 3, or 9 months.	nvarchar(50)
supervisor_id	A foreign key that references the "employee_id" column in the "employees" table.	numeric(18,0)

table	descripion
students	A table that stores information about students enrolled in different intaks.

column	description	data type
student_id	foreign key that references the "applicant_id" column in the "applicants" table.	numeric(18,0)
intake_number	A number that identifies the intake the applicant applied in.	int
emergency_contact	The phone number of the student's emergency contact.	nvarchar(15)
tasks_grade	The grades or scores that the student received for completed tasks and assignments.	int
correctives	count of absence and lateness times.	int

table	descripion
graduates	A table that stores information about the employment status of students after they graduate from an educational program or training track.

column	description	data type
applicant_id	A foreign key that references the "applicant_id" column in the "applicants" table.	numeric(18,0)
intake_number	A number that identifies the intake the applicant applied in.	int
graduation_date	the date when the student graduated.	date
current_job	The current job or position of the graduate.	nvarchar(50)
company	The name of the company where the graduate is employed.	nvarc

		har(50)
job_type	The type of job or position, such as full-time, part-time.	nvarchar(30)
previous_job	The previous job or position held by the graduate, if applicable.	nvarchar(30)
employment_date	The date when the graduate was employed in their current job.	date
salary	The salary of the graduate in their current job.	int

table	descripion
graduation projects	A table that stores information about the graduation projects completed by students in an educational program or training track.

column	description	data type
student_id	A foreign key that references the "student_id" column in the "students" table.	numeric(18,0)
intake_number	A number that identifies the intake the applicant applied in.	int
project_name	The name or title of the graduation project completed by the student.	nvarchar(50)
bonus	A flag that indicates whether the student made the bonus part of the project or not. A value of 1 means the student made the bonus part, unlike 0.	bit
project_grade	The grade or score received by the student for the graduation project.	int
status	The status of the graduation project, which can be either "in progress" or "finished".	nvarchar(30)

table	descripion
certificates	A table that stores information about the certificates earned by students in an educational program or training track.

column	description	data type
student_id	A foreign key that references the "student_id" column in the "students" table.	numeric(18,0)
intake_number	The intake number of the student who earned the certificate.	int

certificate_name	The name or title of the certificate earned by the student.	nvarchar(100)
platform	The platform or provider where the certificate was earned, such as Coursera, edX, or Udemy.	nvarchar(50)
status	The status of the certificate, which can be either "in progress" or "finished".	nvarchar(15)

table	descripion
freelance	A table that stores information about the freelancing jobs required by each students

column	description	data type
student_id	A foreign key that references the "student_id" column in the "students" table.	numeric(18,0)
intake_number	A number that identifies the intake the applicant applied in.	int
status	The status of the freelance job, such as "completed", "in progress"	nvarchar(15)
task_description	A brief description of the task or project completed by the student	nvarchar(90)
platform	The platform where the freelance job was found or posted, such as Upwork, Freelancer, or Fiverr.	nvarchar(30)
duration	The duration of the freelance job in days	int
cost	The payment or compensation received by the student for completing the freelance job.	int
client_name	The name of the client who hired the student for the freelance job.	nvarchar(50)

table	descripion
Applicant_track	A table that stores information about the tracks or programs that applicants have applied to.

column	description	data type
track_id	A foreign key that references the "track_id" column in the "tracks" table.	int
Applicant_id	A foreign key that references the "applicant_id" column in the	num

	"applicants" table.	eric(18,0)

table	descripion
Applicant_branch	A table that stores information about the branches or locations that applicants have applied to.

column	description	data type
Applicant_id	A foreign key that references the "applicant_id" column in the "applicants" table.	numeric(18,0)
branch_id	A foreign key that references the "branch_id" column in the "branches" table.	int

table	descripion
track_branch	A table that stores information about the branches or locations where a track or program is offered.

column	description	data type
track_id	A foreign key that references the "track_id" column in the "tracks" table.	int
branch_id	A foreign key that references the "branch_id" column in the "branches" table.	int

table	descripion
student_answers	A table that stores information about the answers submitted by students for questions in an educational program or assessment.

column	description	data type
student_id	A foreign key that references the "student_id" column in the "students" table.	numeric(18,0)
question_id	A foreign key that references the "question_id" column in the "questions" table.	int
student_answer	The answer submitted by the student for the question.	text
answer_grade	The grade or score received by the student for the answer submitted.	int

table	descripion

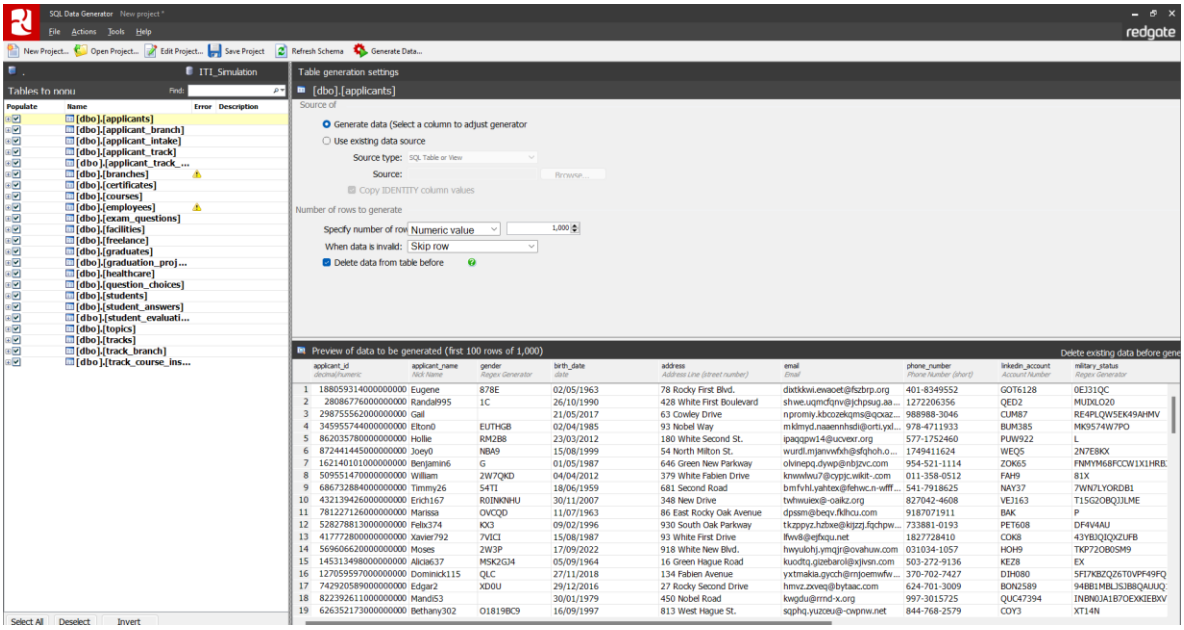
student_evaluation	A table that stores information about the evaluations or feedback provided by students for courses in an educational program.

column	description	data type
student_id	A foreign key that references the "student_id" column in the "students" table.	numeric(18,0)
course_id	A foreign key that references the "course_id" column in the "courses" table.	int
course_rating	The rating provided by the student for the course.	int
facility_rating	The rating provided by the student for the facilities related to the course.	int
instructor_rating	The rating provided by the student for the instructor or instructors of the course.	int

table	descripion
track_course_instructor	A table that stores information about the courses and instructors assigned to a track or program.

column	description	data type
track_id	A foreign key that references the "track_id" column in the "tracks" table.	int
course_id	A foreign key that references the "course_id" column in the "courses" table.	int
instructor_id	A foreign key that references the "instructor_id" column in the "instructors" table.	numeric(18,0)
online_or_offline	A column that indicates whether the course is offered online or offline.	nvarchar(10)

Redgate data generator



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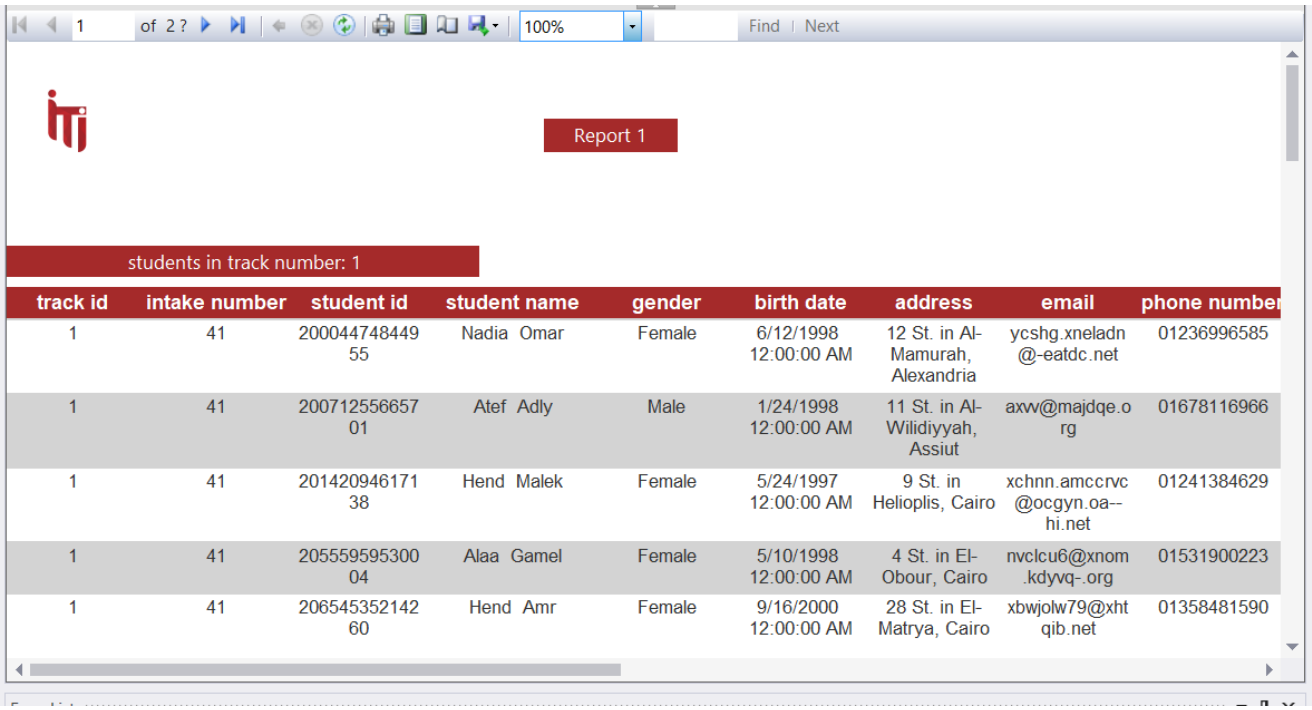
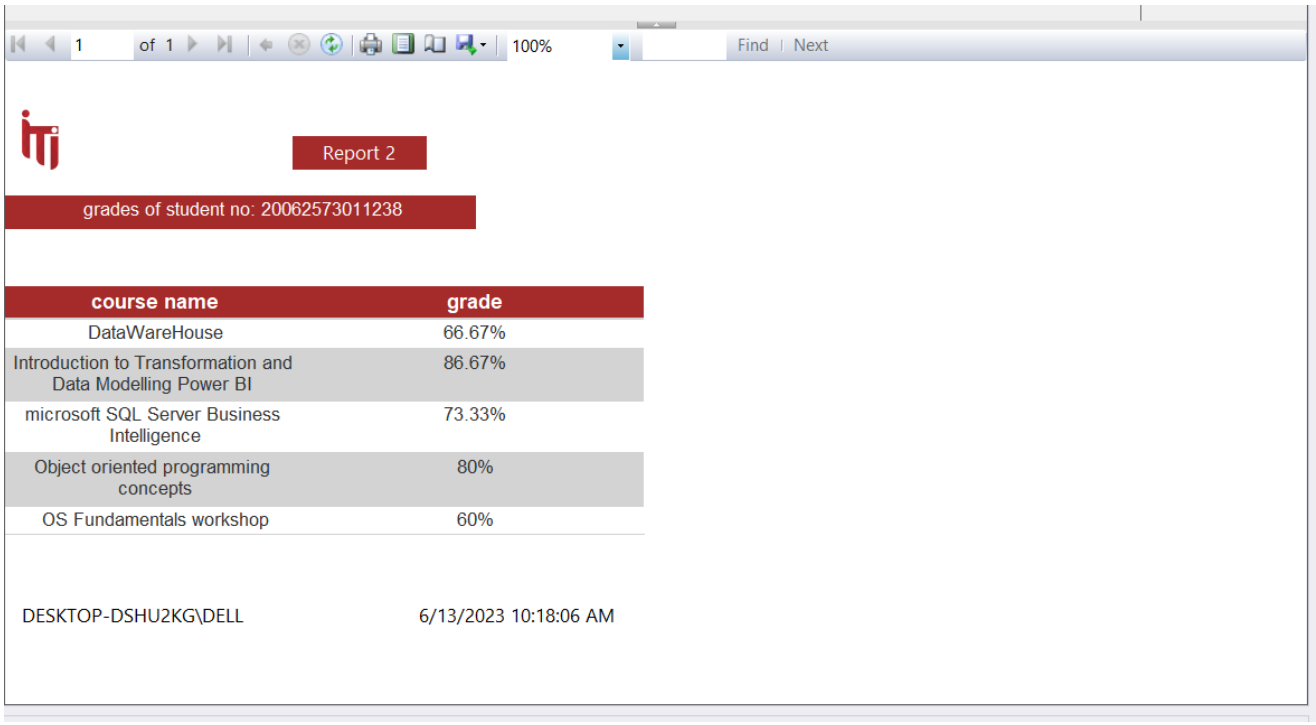
Stored Procedures

- dbo.check_applicant_scores
- dbo.delete_from_table
- dbo.get_applicant_scores
- dbo.get_branches
- dbo.get_course_topics
- dbo.get_courses
- dbo.get_employees
- dbo.get_evaluation
- dbo.get_graduates
- dbo.get_instructor_courses
- dbo.get_intake_applicants
- dbo.get_jobs
- dbo.get_ques_choice
- dbo.Get_specific_course
- dbo.get_specific_graduate
- dbo.get_specific_instructor
- dbo.get_specific_track
- dbo.get_stud_answers
- dbo.get_stud_grades
- dbo.get_studs_by_track
- dbo.get_track_branch
- dbo.get_tracks
- dbo.insert_branch
- dbo.insert_certificate
- dbo.insert_freelance
- dbo.insert_graduate
- dbo.insert_track
- dbo.update_hiring
- dbo.update_military_status
- dbo.update_salary
- dbo.update_table

Reports



track id	intake number	student id	student name	gender	birth date	address	email	phone number
1	41	20004474844955	Nadia Omar	Female	6/12/1998 12:00:00 AM	12 St. in Al-Mamurah, Alexandria	ycshg.xneladn@-eatdc.net	01236996585
1	41	20071255665701	Atef Adly	Male	1/24/1998 12:00:00 AM	11 St. in Al-Wilidiyyah, Assiut	axw@majdqe.org	01678116966
1	41	20142094617138	Hend Malek	Female	5/24/1997 12:00:00 AM	9 St. in Helioplis, Cairo	xchnn.amccrvc@ocgyn.oa--hi.net	01241384629
1	41	20555959530004	Alaa Gamel	Female	5/10/1998 12:00:00 AM	4 St. in El-Obour, Cairo	nvclcu6@xnom.kdyvq-.org	01531900223
1	41	20654535214260	Hend Amr	Female	9/16/2000 12:00:00 AM	28 St. in El-Matrya, Cairo	xbwjolw79@xhtqib.net	01358481590



course name	grade
DataWareHouse	66.67%
Introduction to Transformation and Data Modelling Power BI	86.67%
microsoft SQL Server Business Intelligence	73.33%
Object oriented programming concepts	80%
OS Fundamentals workshop	60%

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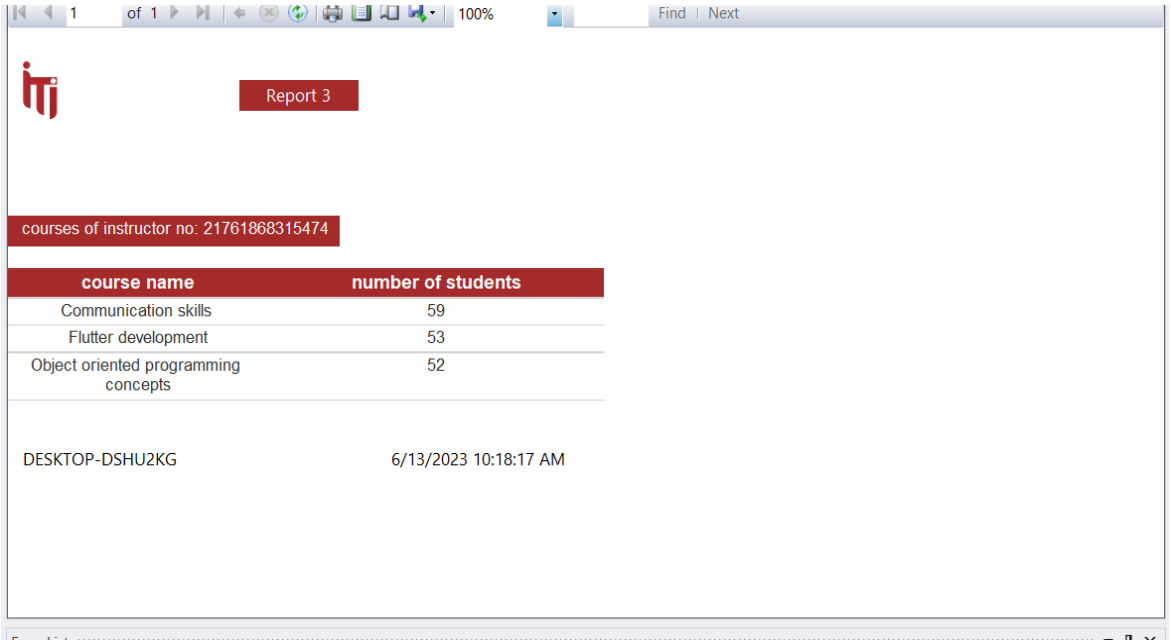
1
of 1
100%
Find
Next
Report 3
courses of instructor no: 21761868315474
course name
number of students
Communication skills
59
Flutter development
53
Object oriented programming concepts
52
DESKTOP-DSHU2KG
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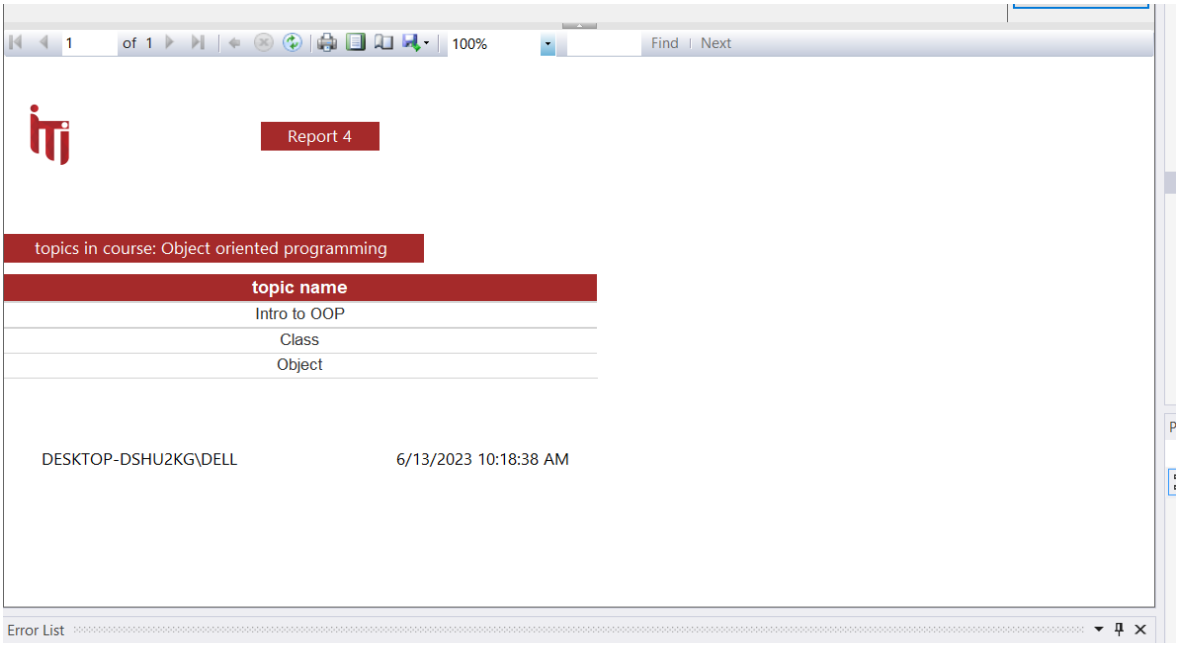
1
of 1
100%
Find
Next
Report 4
topics in course: Object oriented programming
topic name
Intro to OOP
Class
Object
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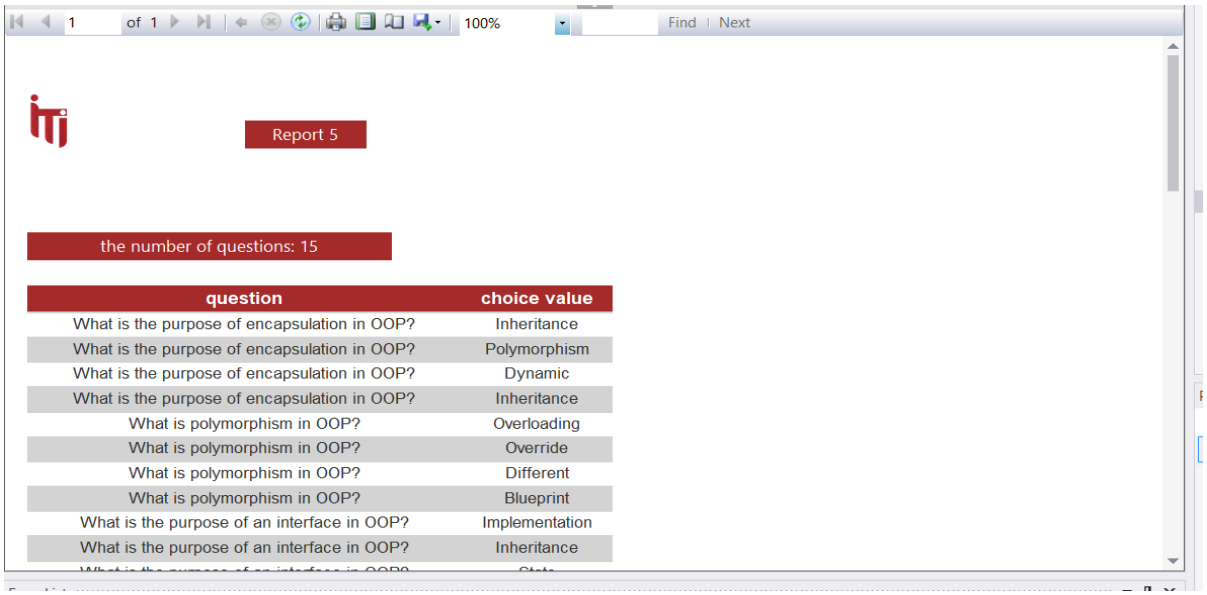
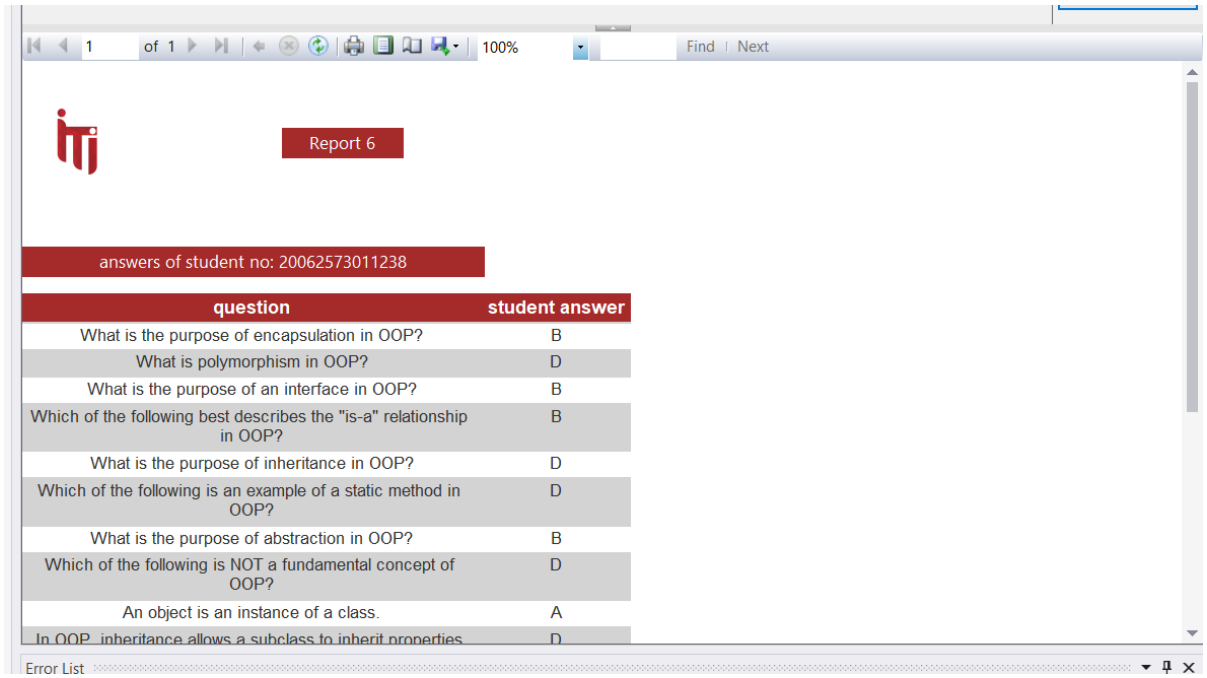
6/13/2023 10:18:38 AM
Error List



question	choice value
What is the purpose of encapsulation in OOP?	Inheritance
What is the purpose of encapsulation in OOP?	Polymorphism
What is the purpose of encapsulation in OOP?	Dynamic
What is the purpose of encapsulation in OOP?	Inheritance
What is polymorphism in OOP?	Overloading
What is polymorphism in OOP?	Override
What is polymorphism in OOP?	Different
What is polymorphism in OOP?	Blueprint
What is the purpose of an interface in OOP?	Implementation
What is the purpose of an interface in OOP?	Inheritance

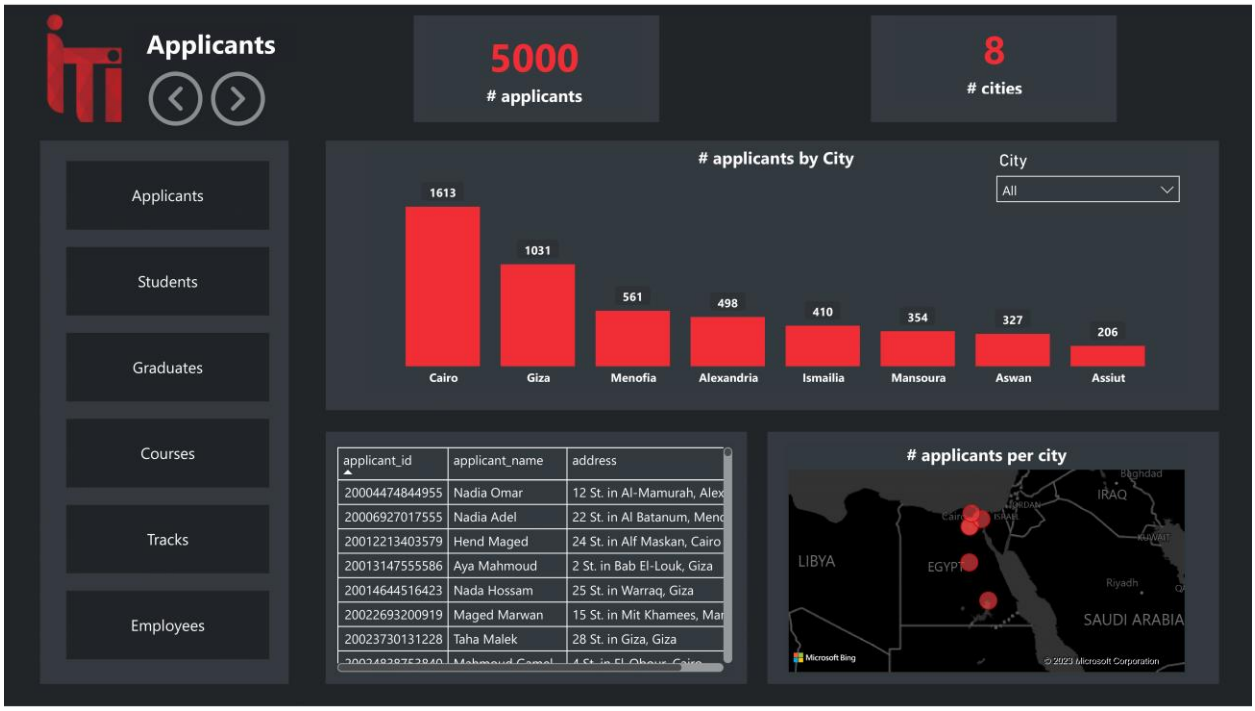


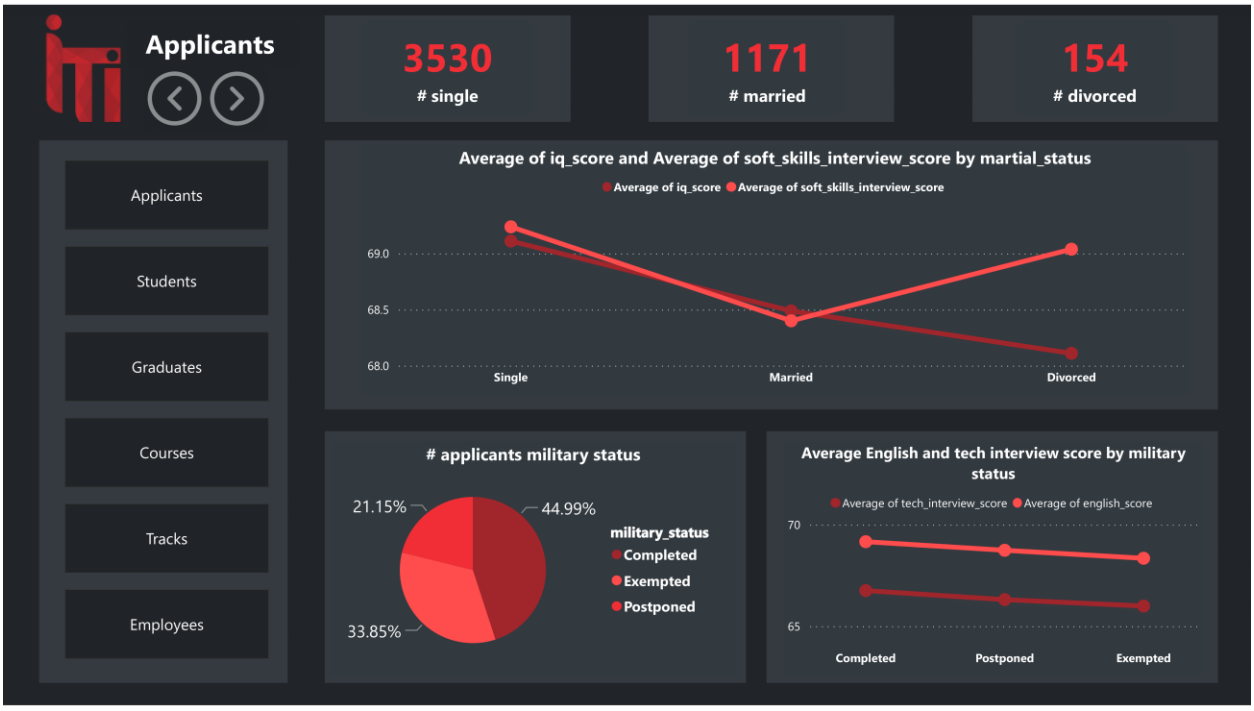
question	student answer
What is the purpose of encapsulation in OOP?	B
What is polymorphism in OOP?	D
What is the purpose of an interface in OOP?	B
Which of the following best describes the "is-a" relationship in OOP?	B
What is the purpose of inheritance in OOP?	D
Which of the following is an example of a static method in OOP?	D
What is the purpose of abstraction in OOP?	B
Which of the following is NOT a fundamental concept of OOP?	D
An object is an instance of a class.	A
In OOP, inheritance allows a subclass to inherit properties	D

Dashboards

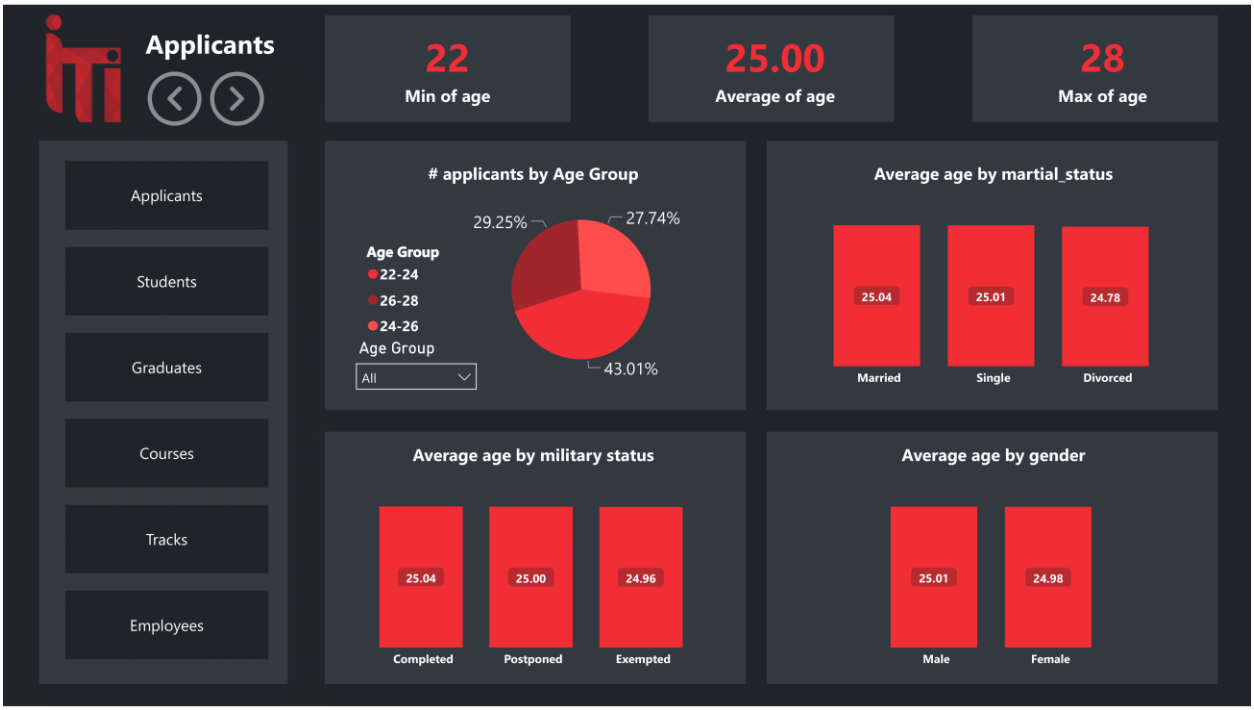

Applicants
5000
applicants
65.10%
% males
34.90%
% females
Applicants
Students
Graduates
Courses
Tracks
Employees
applicant_id | intake | applicant_name | email | phone_number | linkedin_account
20004474844955 | 41 | Nadia Omar | ycshg.xneladn@-eatdc.net | 01236996585 | Nadia Omar
20006927017555 | 42 | Nadia Adel | idvofles@sxbxcnxn.lrsdxu.net | 01934822697 | Nadia Adel
20012213403579 | 43 | Hend Maged | ghgoxv.ojgmbhyvoj@hcdpta.com | 01772332061 | Hend Maged
20013147555586 | 41 | Aya Mahmoud | bbixhi5@gbvbil.com | 01268236601 | Aya Mahmoud
20014644516423 | 42 | Nada Hossam | nmdaaj.snfjdnv@oblc.wxjdua.org | 01405855292 | Nada Hossam
20022693200919 | 43 | Maged Marwan | czmw.tndzboh@bztqor.com | 01247103763 | Maged Marwan
20023730131228 | 41 | Taha Malek | wfwytowg628@pxuj.ykwujp.org | 01026752606 | Taha Malek
20024838753840 | 42 | Mahmoud Gamel | qsiiyb76@bqvklj.net | 01612744265 | Mahmoud Gamel
applicants by graduation_year
240
230
220
210
200
2010
2015
2020
applicants per intake
33.34%
33.34%
33.32%
intake_number
41
42
43

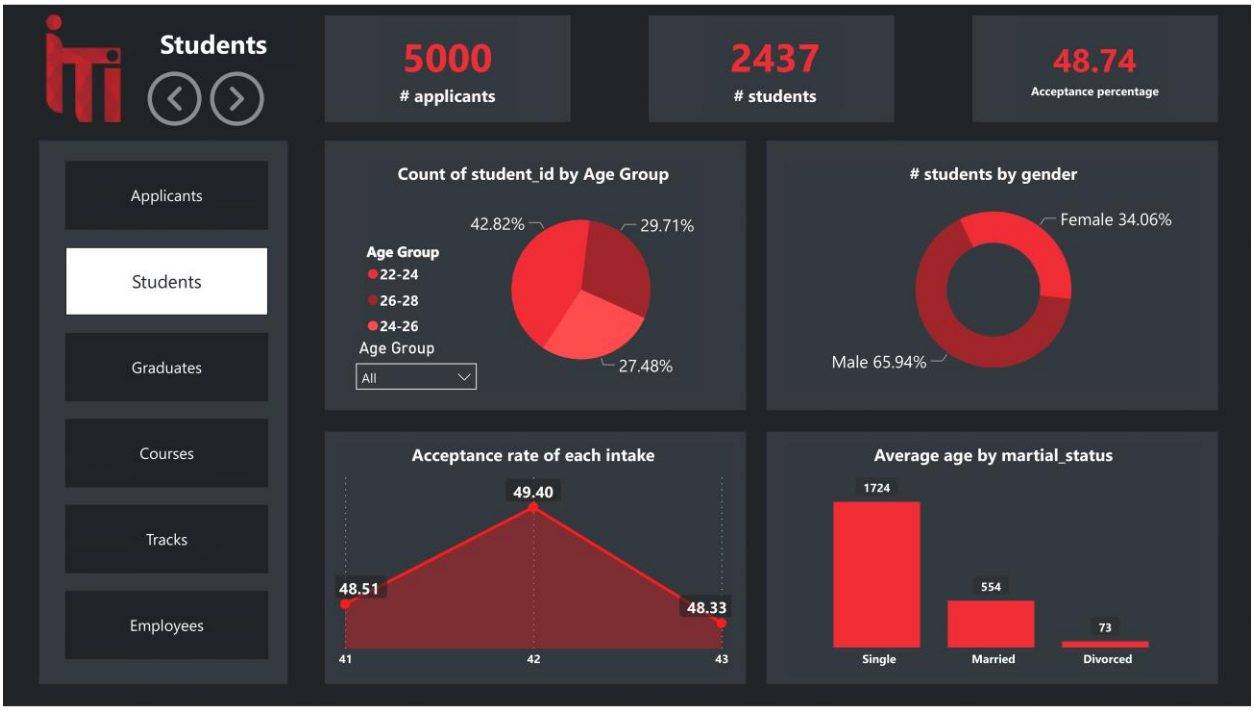

Applicants
5000
applicants
8
faculty
14
universities
Applicants
Students
Graduates
Courses
Tracks
Employees
applicants by Universities
University
All
500
0
Ain Shams Uni...
Menofia University
Cairo University
Banha University
Helwan University
Mansoura Unive...
Alexandaria Uni...
Ismailia University
Menof University
Port Saied Unive...
Qena University
Suez University
Aswan University
Assuit University
applicants by faculty
1K
0K
Science
Computers and ...
Engineering
Computers and I...
Computer Science
Arts
Law
Commerce
applicants by grade
Good 33.38%
Excellent 34.48%
VeryGood 32.14%
grade
Excellent
Good
VeryGood

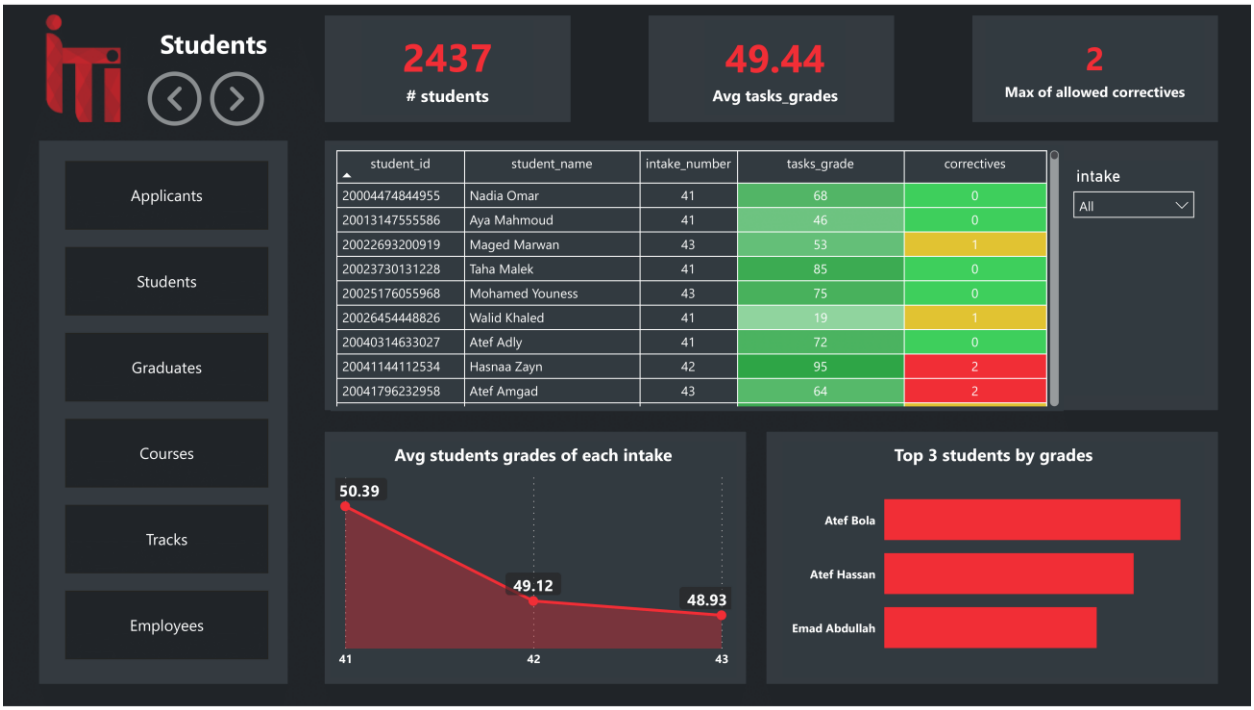

Applicants
5000
applicants
8
cities
Applicants
Students
Graduates
Courses
Tracks
Employees
applicants by City
City
All
1613
1031
561
498
410
354
327
206
Cairo
Giza
Menofia
Alexandria
Ismailia
Mansoura
Aswan
Assiut
applicant_id
applicant_name
address
20004474844955
Nadia Omar
12 St. in Al-Mamurah, Alex
20006927017555
Nadia Adel
22 St. in Al Batanum, Menc
20012213403579
Hend Maged
24 St. in Alf Maskan, Cairo
20013147555586
Aya Mahmoud
2 St. in Bab El-Louk, Giza
20014644516423
Nada Hossam
25 St. in Warraq, Giza
20022693200919
Maged Marwan
15 St. in Mit Khamees, Mar
20023730131228
Taha Malek
28 St. in Giza, Giza
applicants per city
IRAQ
LIBYA
EGYPT
SAUDI ARABIA
Riyadh
Microsoft Bing
© 2023 Microsoft Corporation

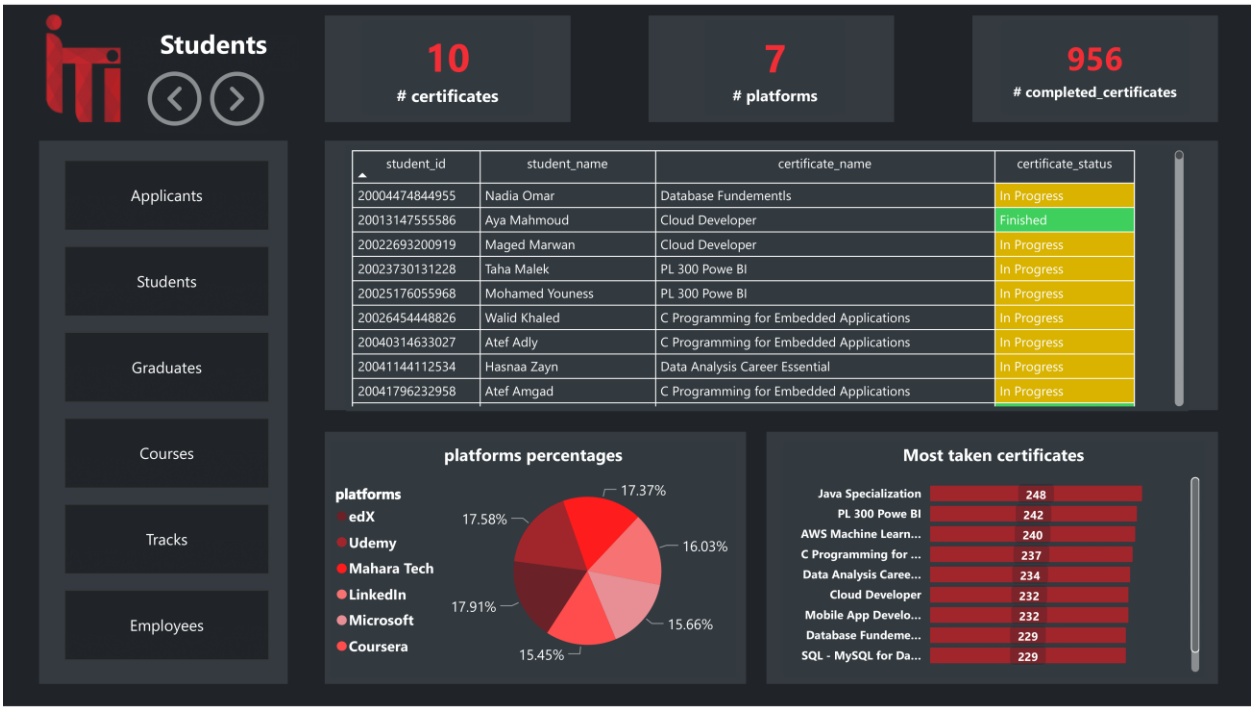

Applicants
3530
single
1171
married
154
divorced
Applicants
Students
Graduates
Courses
Tracks
Employees
Average of iq_score and Average of soft_skills_interview_score by martial_status
Average of iq_score
Average of soft_skills_interview_score
69.0
68.5
68.0
Single
Married
Divorced
applicants military status
21.15%
44.99%
33.85%
military_status
Completed
Exempted
Postponed
Average English and tech interview score by military status
Average of tech_interview_score
Average of english_score
70
65
Completed
Postponed
Exempted

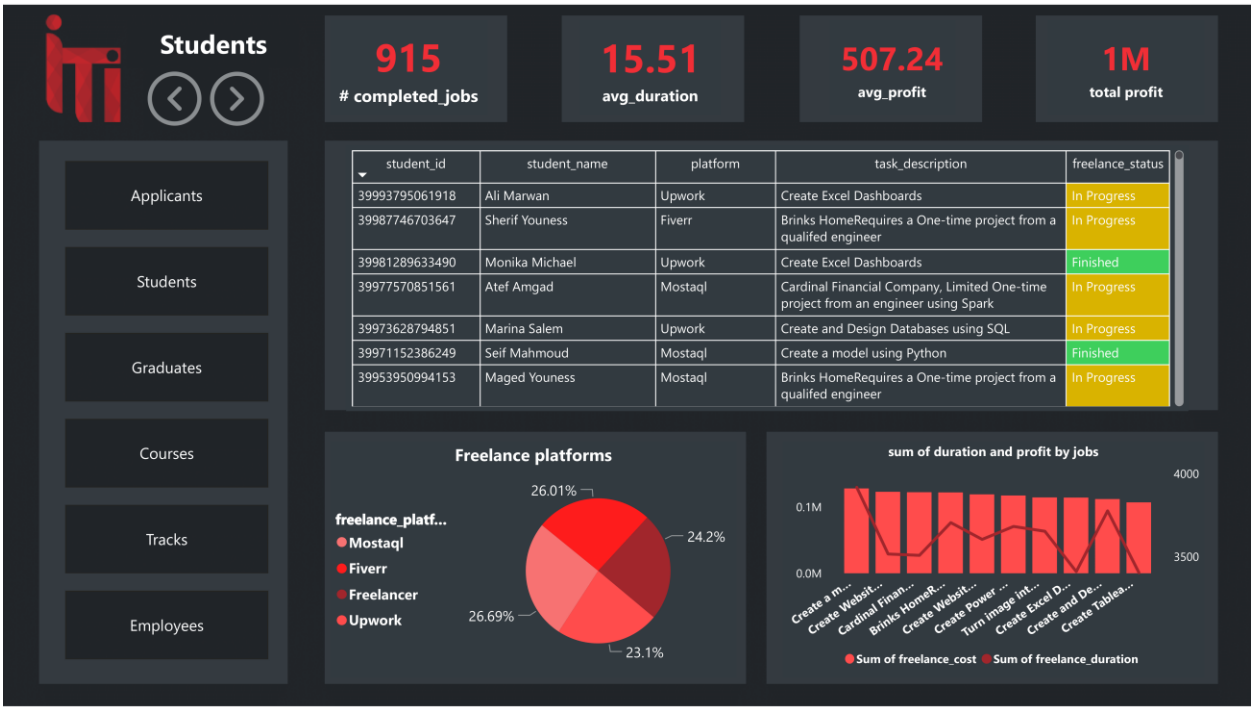

Applicants
68.94
Avg iq_score
68.82
Avg english_score
66.43
Avg tech_interview_score
69.00
Avg soft_skills_score
Applicants
Students
Graduates
Courses
Tracks
Employees
applicant_id | applicant_name | iq_score | english_score | tech_score | soft_skills_score | final_interview_score | Accepted or Not
20004474844955 | Nadia Omar | 70 | 74 | 70 | 78 | 60 | Accepted
20006927017555 | Nadia Adel | 70 | 87 | 70 | 45 | 75 | Not Accepted
20012213403579 | Hend Maged | 63 | 93 | 36 | 60 | 70 | Not Accepted
20013147555586 | Aya Mahmoud | 77 | 55 | 86 | 98 | 70 | Accepted
20014644516423 | Nada Hossam | 89 | 43 | 70 | 60 | 79 | Not Accepted
20022693200919 | Maged Marwan | 70 | 70 | 70 | 93 | 80 | Accepted
20023730131228 | Taha Malek | 70 | 61 | 52 | 51 | 96 | Accepted
20024838753840 | Mahmoud Gamel | 67 | 70 | 39 | 70 | 68 | Not Accepted
Top 3 Students by Final score
iq english tech soft final
Atef Bola 20.52% 20.23% 19.95% 19.80% 19.50%
Atef Hassan 19.86% 19.87% 20.06% 19.72% 20.49%
Taha Malek 19.47% 19.86% 19.98% 20.68% 20.01%
Average scores per intake
iq english tech soft final
70
68
66
41
42
43

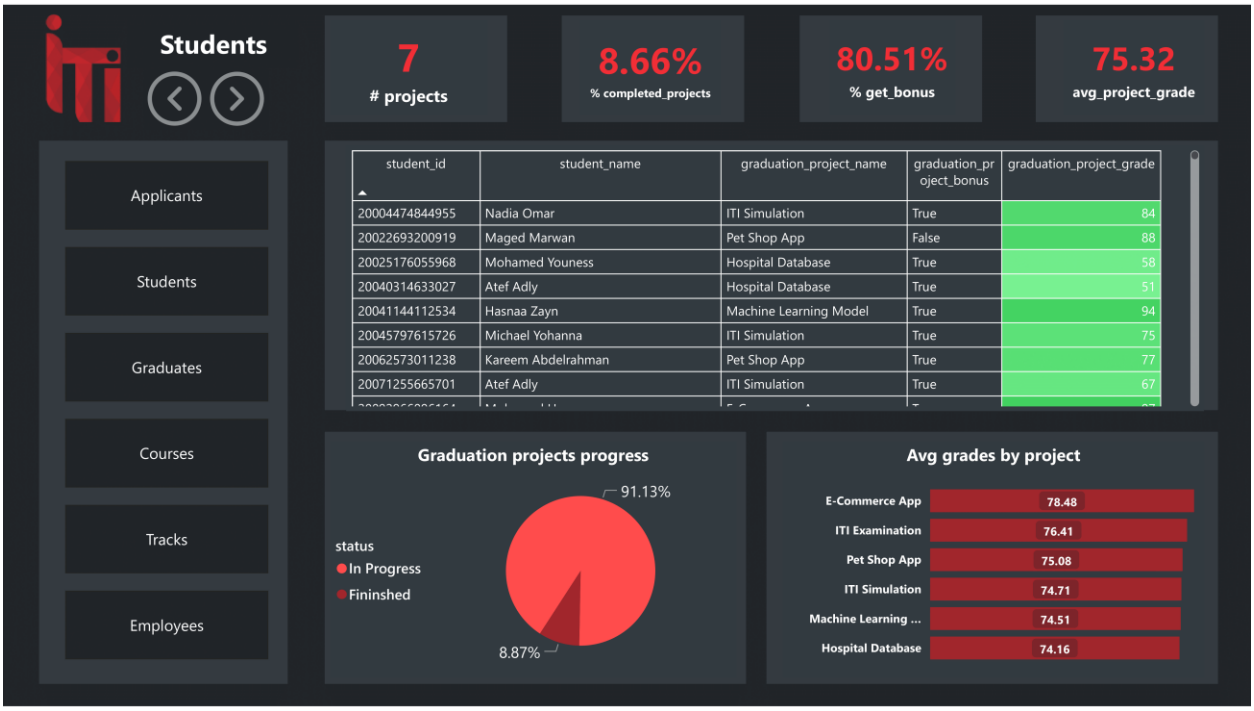

Applicants
22
Min of age
25.00
Average of age
28
Max of age
Applicants
Students
Graduates
Courses
Tracks
Employees
applicants by Age Group
29.25%
27.74%
43.01%
Age Group
22-24
26-28
24-26
Age Group
All
Average age by martial_status
25.04
25.01
24.78
Married
Single
Divorced
Average age by military status
25.04
25.00
24.96
Completed
Postponed
Exempted
Average age by gender
25.01
24.98
Male
Female


Students
5000
applicants
2437
students
48.74
Acceptance percentage
Applicants
Students
Graduates
Courses
Tracks
Employees
Count of student_id by Age Group
42.82%
29.71%
27.48%
Age Group
22-24
26-28
24-26
Age Group
All
students by gender
Female 34.06%
Male 65.94%
Acceptance rate of each intake
49.40
48.51
48.33
41
42
43
Average age by martial_status
1724
554
73
Single
Married
Divorced

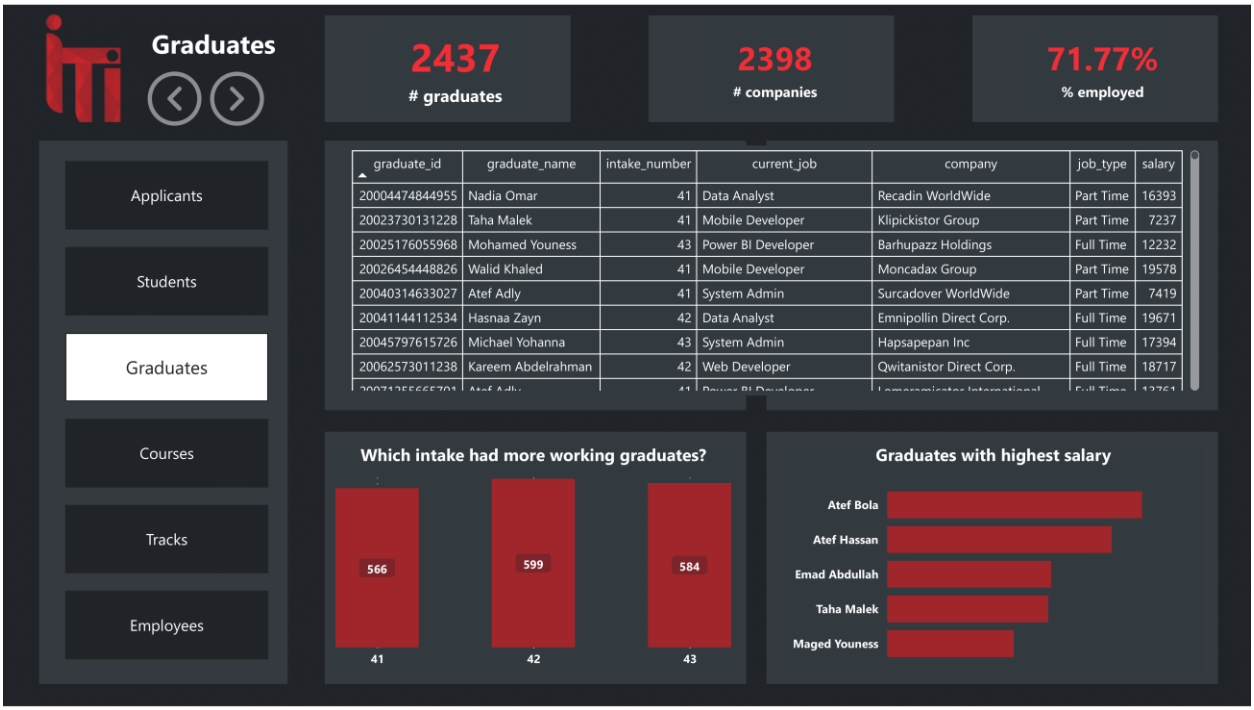

Students
2437
students
49.44
Avg tasks_grades
2
Max of allowed correctives
Applicants
Students
Graduates
Courses
Tracks
Employees
student_id
student_name
intake_number
tasks_grade
correctives
20004474844955 Nadia Omar 41 68 0
20013147555586 Aya Mahmoud 41 46 0
20022693200919 Maged Marwan 43 53 1
20023730131228 Taha Malek 41 85 0
20025176055968 Mohamed Youness 43 75 0
20026454448826 Walid Khaled 41 19 1
20040314633027 Atef Adly 41 72 0
20041144112534 Hasnaa Zayn 42 95 2
20041796232958 Atef Amgad 43 64 2
intake
All
Avg students grades of each intake
50.39
49.12
48.93
41
42
43
Top 3 students by grades
Atef Bola
Atef Hassan
Emad Abdullah


Students
10
certificates
7
platforms
956
completed_certificates
Applicants
Students
Graduates
Courses
Tracks
Employees
student_id | student_name | certificate_name | certificate_status
20004474844955 | Nadia Omar | Database Fundementls | In Progress
20013147555586 | Aya Mahmoud | Cloud Developer | Finished
20022693200919 | Maged Marwan | Cloud Developer | In Progress
20023730131228 | Taha Malek | PL 300 Powe BI | In Progress
20025176055968 | Mohamed Youness | PL 300 Powe BI | In Progress
20026454448826 | Walid Khaled | C Programming for Embedded Applications | In Progress
20040314633027 | Atef Adly | C Programming for Embedded Applications | In Progress
20041144112534 | Hasnaa Zayn | Data Analysis Career Essential | In Progress
20041796232958 | Atef Amgad | C Programming for Embedded Applications | In Progress
platforms percentages
platforms
edX
Udemy
Mahara Tech
LinkedIn
Microsoft
Coursera
17.37%
16.03%
15.66%
15.45%
17.91%
17.58%
Most taken certificates
Java Specialization 248
PL 300 Powe BI 242
AWS Machine Learn... 240
C Programming for ... 237
Data Analysis Caree... 234
Cloud Developer 232
Mobile App Develo... 232
Database Fundeme... 229
SQL - MySQL for Da... 229

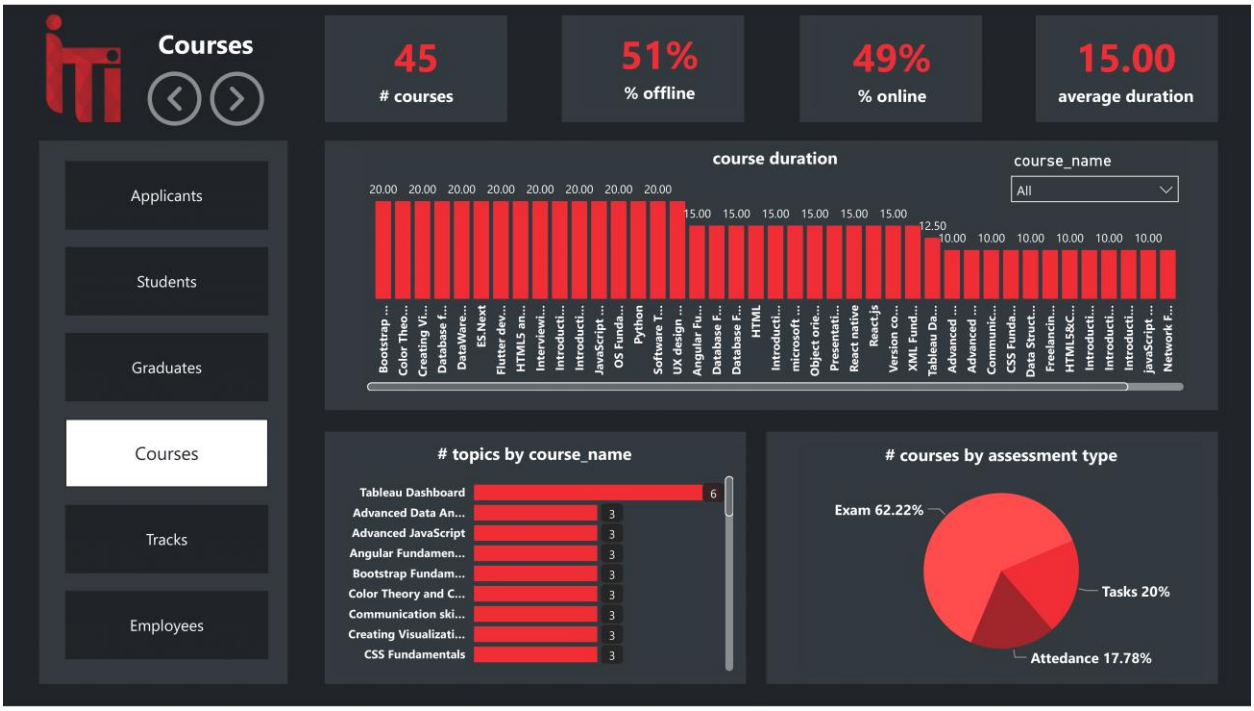

Students
915
completed_jobs
15.51
avg_duration
507.24
avg_profit
1M
total profit
Applicants
Students
Graduates
Courses
Tracks
Employees
student_id | student_name | platform | task_description | freelance_status
39993795061918 | Ali Marwan | Upwork | Create Excel Dashboards | In Progress
39987746703647 | Sherif Youness | Fiverr | Brinks HomeRequires a One-time project from a qualifed engineer | In Progress
39981289633490 | Monika Michael | Upwork | Create Excel Dashboards | Finished
39977570851561 | Atef Amgad | Mostaql | Cardinal Financial Company, Limited One-time project from an engineer using Spark | In Progress
39973628794851 | Marina Salem | Upwork | Create and Design Databases using SQL | In Progress
39971152386249 | Seif Mahmoud | Mostaql | Create a model using Python | Finished
39953950994153 | Maged Youness | Mostaql | Brinks HomeRequires a One-time project from a qualifed engineer | In Progress
Freelance platforms
freelance_platf...
Mostaql
Fiverr
Freelancer
Upwork
26.01%
24.2%
23.1%
26.69%
sum of duration and profit by jobs
0.1M
0.0M
4000
3500
Create a m...
Create Websit...
Cardinal Finan...
Brinks HomeR...
Create Websit...
Create Power ...
Turn Image int...
Create Excel D...
Create and De...
Create Tablea...
Sum of freelance_cost
Sum of freelance_duration


Students
7
projects
8.66%
% completed_projects
80.51%
% get_bonus
75.32
avg_project_grade
Applicants
Students
Graduates
Courses
Tracks
Employees
student_id
student_name
graduation_project_name
graduation_project_bonus
graduation_project_grade
20004474844955 Nadia Omar ITI Simulation True 84
20022693200919 Maged Marwan Pet Shop App False 88
20025176055968 Mohamed Youness Hospital Database True 58
20040314633027 Atef Adly Hospital Database True 51
20041144112534 Hasnaa Zayn Machine Learning Model True 94
20045797615726 Michael Yohanna ITI Simulation True 75
20062573011238 Kareem Abdelrahman Pet Shop App True 77
20071255665701 Atef Adly ITI Simulation True 67
Graduation projects progress
91.13%
8.87%
status
In Progress
Fininshed
Avg grades by project
E-Commerce App 78.48
ITI Examination 76.41
Pet Shop App 75.08
ITI Simulation 74.71
Machine Learning ... 74.51
Hospital Database 74.16


Students
2.98
Avg facilities rat...
2.97
Avg courses rating
2.92
Avg instructor rating
Applicants
Students
Graduates
Courses
Tracks
Employees
student_id
student_name
facility_rating
course_rating
instructor_rating
20004474844955 Nadia Omar 4 1 2
20013147555586 Aya Mahmoud 1 3 5
20022693200919 Maged Marwan 3 3 2
20023730131228 Taha Malek 1 4 3
20025176055968 Mohamed Youness 2 4 5
20026454448826 Walid Khaled 2 1 4
20040314633027 Atef Adly 2 5 3
20041144112534 Hasnaa Zayn 4 4 3
intake
All
Average of facility_rating by facility_type
2.99
2.98
2.98
Hall
Lab
Services
Top 5 instructors by Avg rating
3.06
3.06
3.04
3.03
3.01
Halla Emad
Yasser Gamel
Mohamed Ashraf
Kamal Joseph
Amany Ali


Graduates
2437
graduates
2398
companies
71.77%
% employed
Applicants
Students
Graduates
Courses
Tracks
Employees
graduate_id | graduate_name | intake_number | current_job | company | job_type | salary
20004474844955 | Nadia Omar | 41 | Data Analyst | Recadin WorldWide | Part Time | 16393
20023730131228 | Taha Malek | 41 | Mobile Developer | Klipickistor Group | Part Time | 7237
20025176055968 | Mohamed Youness | 43 | Power BI Developer | Barhupazz Holdings | Full Time | 12232
20026454448826 | Walid Khaled | 41 | Mobile Developer | Moncadax Group | Part Time | 19578
20040314633027 | Atef Adly | 41 | System Admin | Surcadover WorldWide | Part Time | 7419
20041144112534 | Hasnaa Zayn | 42 | Data Analyst | Emnipollin Direct Corp. | Full Time | 19671
20045797615726 | Michael Yohanna | 43 | System Admin | Hapsapepan Inc | Full Time | 17394
20062573011238 | Kareem Abdelrahman | 42 | Web Developer | Qwitanistor Direct Corp. | Full Time | 18717
Which intake had more working graduates?
566
599
584
41
42
43
Graduates with highest salary
Atef Bola
Atef Hassan
Emad Abdullah
Taha Malek
Maged Youness

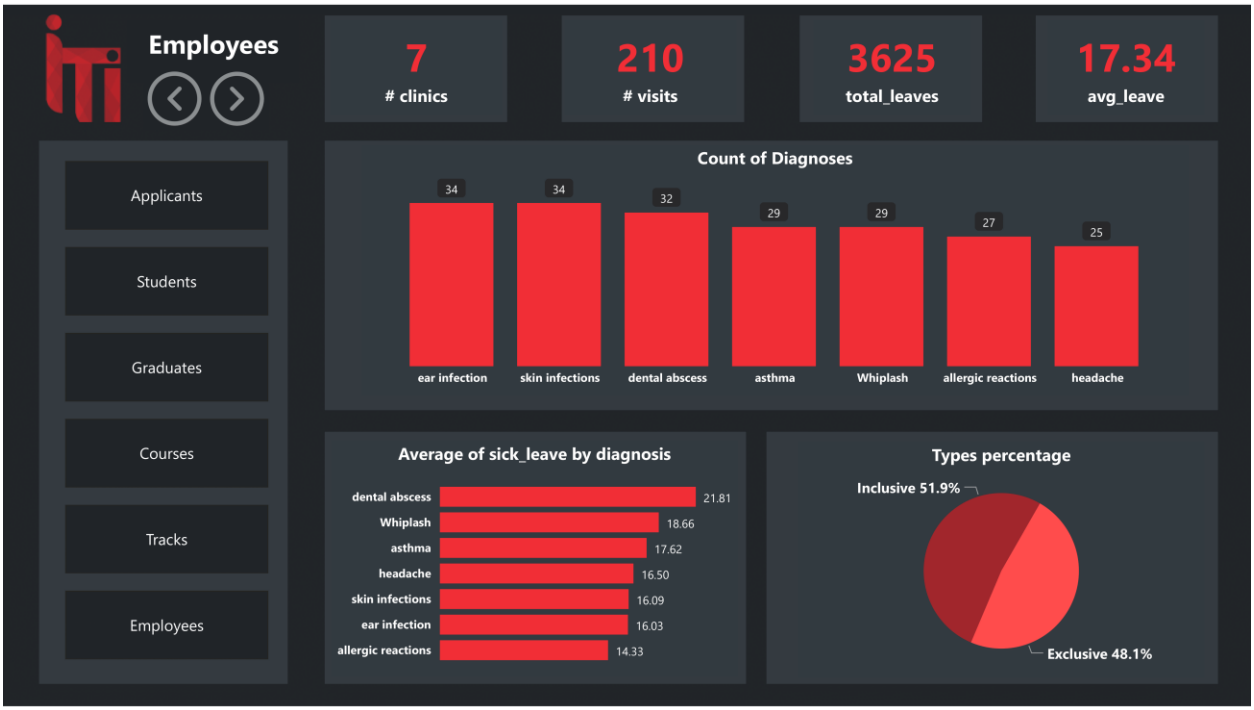

Graduates
11.63
average months to employment
12.59K
avg_salary
20K
heighest salary
Applicants
Students
Graduates
Courses
Tracks
Employees
Job type percentage
job_type
Part Time
Full Time
51.14%
48.86%
Highest paying jobs
Data Analyst 390K
Machine Learning E... 302K
Mobile Developer 279K
Web Developer 278K
Cloud Engineer 251K
Database Admin 251K
Power BI Developer 236K
System Admin 218K
Which year graduates were employed the most
753
828
838
2020
2021
2022
Most graduates needed less than a 10 months to get employed
graduates
100
0
0
10
20
30
Time to Employment


Courses
45
courses
51%
% offline
49%
% online
15.00
average duration
Applicants
Students
Graduates
Courses
Tracks
Employees
course duration
course_name
All
20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00
15.00 15.00 15.00 15.00 15.00 15.00
12.50
10.00 10.00 10.00 10.00 10.00 10.00
Bootstrap ...
Color Theo...
Creating Vi...
Database f...
DataWare...
ES.Next
Flutter dev...
HTML5 an...
Interviewi...
Introducti...
Introducti...
JavaScript ...
OS Funda...
Python
Software T...
UX design ...
Angular Fu...
Database F...
Database F...
HTML
Introducti...
microsoft ...
Object orie...
Presentati...
React native
React.js
Version co...
XML Fund...
Tableau Da...
Advanced ...
Advanced ...
Communic...
CSS Funda...
Data Struct...
Freelancin...
HTML5&C...
Introducti...
Introducti...
Introducti...
JavaScript ...
Network F...
topics by course_name
Tableau Dashboard 6
Advanced Data An... 3
Advanced JavaScript 3
Angular Fundamen... 3
Bootstrap Fundam... 3
Color Theory and C... 3
Communication ski... 3
Creating Visualizati... 3
CSS Fundamentals 3
courses by assessment type
Exam 62.22%
Tasks 20%
Attedance 17.78%


Tracks
21
tracks
57%
% 3 months
43%
% 9 months
Applicants
Students
Graduates
Courses
Tracks
Employees
%offline & %online in each track
% offline
% online
Full stack Web Development Using Python 100%
Data Engineering 80% 20%
IOS Mobile Application Development 80% 20%
Motion Graphics 80% 20%
System Admin 80% 20%
Web Development Using CMS 80% 20%
Automation Development 60% 40%
Full stack Web Development using PHP 60% 40%
students by track_name
IOS Mobile Applica... 131
2D Graphic Design 125
Mobile Application... 125
DevOps 123
System Admin 122
Web Development ... 122
Full stack Web Dev... 119
Database Administ... 118
Full stack Web Dev... 118
% employed by track
Power BI Developer 78.95%
DevOps 78.63%
AWS reStart 77.88%
Full stack Web Deve... 76.27%
System Admin 75.63%
Data Engineering 75.00%
Full stack Web Deve... 73.58%
GIS 73.08%
Full stack Web Deve... 72.48%


Tracks
44
instructors
2.92
instructor rating
47
average_age
5.43K
average_salary
Applicants
Students
Graduates
Courses
Tracks
Employees
instructor id
instructor name
martial_status
age
salary
21761868315474 Mohamed Ashraf Divorced 61 6910
22110223632107 Salem Emad Married 67 9394
22813162127047 Gamal Adel single 38 2666
22894010282466 Yasser Gamel single 44 2760
23030234657632 Hossam Kareem Married 50 2015
23251249951758 Heba Seif Divorced 40 8811
23572302007416 Ahmed Abdelrahman Married 57 2043
23577932384302 Hussein Atef single 66 8140
count of courses by instructor
Adly Bola 8
Mohamed Ashraf 6
Heba Seif 5
Hussein Atef 5
Kamal Joseph 5
Kareem Sherif 5
Salem Emad 5
Taha Abdelrahman 5
Amany Ali 4
instructors by martial status
Married 64.89%
single 23.4%
Divorced 11.7%


Employees
100
employees
47.40
avgerage age
5.83K
average salary
Applicants
Students
Graduates
Courses
Tracks
Employees
count of employees by job title
95
Instructor
53
Security
39
Lab Keeper
33
Janitor
count of employees by age
< 30 7
< 40 59
< 50 63
< 60 49
< 70 42
employees by martial status
Married 62.04%
single 27.31%
Divorced 10.65%


Employees
7
clinics
210
visits
3625
total_leaves
17.34
avg_leave
Applicants
Students
Graduates
Courses
Tracks
Employees
Count of Diagnoses
34
34
32
29
29
27
25
ear infection
skin infections
dental abscess
asthma
Whiplash
allergic reactions
headache
Average of sick_leave by diagnosis
dental abscess 21.81
Whiplash 18.66
asthma 17.62
headache 16.50
skin infections 16.09
ear infection 16.03
allergic reactions 14.33
Types percentage
Inclusive 51.9%
Exclusive 48.1%


Employees
13
branches
1993
first branch_year
2020
last branch_year
Applicants
Students
Graduates
Courses
Tracks
Employees
branches opened over the years
Year
All
1
1
5
3
1
1
1
1995
2000
2005
2010
2015
2020
New Capital Branch
Cairo University Branch
12/31/2020
last branch
1/1/1993
first branch