

2024

# TRAINER PROFILE PROJECT

Presented by:

**Shaimaa Alromh** 

Sara Samy

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## 1. Introduction:

The ICEALEX team asked to do a project to manage their data and optimize trainers' allocation across ICEALEX programs. This project aims to enhance the effectiveness of ICEALEX's training programs by focusing on two key objectives:

- Analyzing Trainer Satisfaction Rates: By measuring and improving trainer satisfaction, we aim to boost the quality of education provided, ensuring that satisfied trainers create more engaging and impactful learning experiences for trainees.
- Creating Comprehensive Trainer Portfolios: Developing detailed portfolios for each trainer will capture their expertise, qualifications, performance metrics, and program history. This will enable data-driven decisions for optimal trainer deployment, fostering continuous improvement and excellence in training delivery.

#### Some issues were encountered throughout the project:

<u>Inconsistent Data Entries:</u> Several trainer records had missing or inconsistent data, making it difficult to assess performance and qualifications accurately.

#### The tools and methodologies used in the project:

- SQL Server is utilized to create and manage the database, ensuring efficient storage and handling of trainer data and relationships between different data tables.
- Python: Utilized to do Exploratory Data Analysis (EDA) to explore the data, identify patterns, and address inconsistencies.
- Excel: Used to construct pivot tables and connect with the SQL database, facilitating a detailed and dynamic examination of the data.
- Power BI: Applied to analyze the data and create interactive visualizations. Power BI allowed us to present the data clearly and engagingly, helping stakeholders to easily understand the insights and trends.

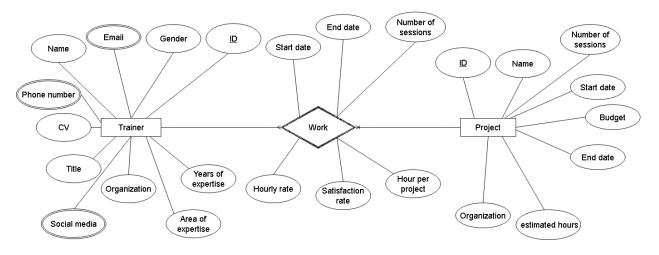
Through addressing these issues and implementing our objectives, we strive to elevate both trainer and trainee success, driving the overall mission of ICEALEX forward.

## 2. Business Questions:

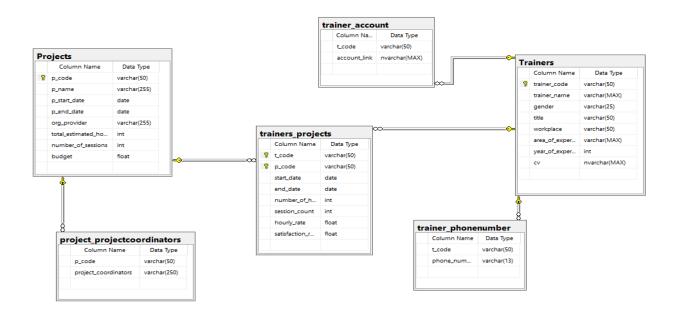
- 1. The ICEALEX community has several trainers. Each trainer has a name, gender, ID, CV, title, organization, years of experience, area of expertise, satisfaction rate, hourly rate, hour per project, multiple emails, phone numbers, and social media accounts.
- 2. The community has many projects. Each project has a name, ID, number of sessions, start date, end date, budget, organization, and estimated hours.
- 3. Each trainer may work on many projects
- 4. Each project must done by one or more trainer

## 3. Database Design:

#### 3.1. Entity Relationship Diagram(ERD):



#### 3.2. The Schema:



## 4. Database Creation:

In this step, we used SQL Server to create, insert, and select the trainer's data.

#### The tables created are:

- 1. Trainers table: A dimension table that contains the trainers' data.
- 2. trainer\_phonenumber table: A dimension table containing multiple trainers' phone number values.
- 3. trainer\_account: A dimension table that contains multiple values of trainers' email addresses and social media accounts.
- 4. Projects: A dimension table that contains IceAlex's projects.
- 5. Project\_projectcoordinators: A dimension table containing the coordinators' names, assigned for the projects.
- 6. trainers\_projects table: A fact table containing both trainers' data and the projects they worked on.

Table name	Key	Туре	
Trainers	trainer_code	Primary key	
trainer_phonenumber	t_code,phone_number	Composite key	
trainer_account	t_code,account_link	Composite key	
Projects	p_code	Primary key	
project_projectcoordinators	p_code,project_coordinator	Composite key	
trainers_projects	t_code,p_code	Composite key	

#### 4.1 Database Tables Creation:

#### **Create trainer portfolio database:**

CREATE DATABASE trainer\_portfolio; USE trainer\_portfolio;

#### **Create Trainers table:**

CREATE TABLE Trainers(
trainer\_code varchar(50) PRIMARY KEY,
trainer\_name varchar(max) NOT NULL,
gender varchar(25) NOT NULL,
title varchar(50),
workplace varchar(50),
area\_of\_expertise varchar(max),
year\_of\_expertise int,
cv nvarchar(max))

```
Create trainer-accounts table:
```

```
CREATE TABLE trainer_account(
t_code varchar(50) FOREIGN KEY REFERENCES Trainers(trainer_code),
account_link nvarchar(max)
)
```

#### **Create trainer-phone number table:**

```
CREATE TABLE trainer_phonenumber(
t_code varchar(50) FOREIGN KEY REFERENCES Trainers(trainer_code),
phone_number varchar(13),
)
```

#### **Create projects table:**

```
CREATE TABLE Projects(
p_code varchar(50) PRIMARY KEY,
p_name varchar(255) NOT NULL,
p_start_date Date,
p_end_date Date,
org_provider varchar(255),
total_estimated_hours int,
number_of_sessions int,
budget Float
)
```

#### Create a project coordinator table:

```
CREATE TABLE project_projectcoordinators(
p_code varchar(50) FOREIGN KEY REFERENCES Projects(p_code),
project_coordinators varchar(250)
)
```

#### Create trainers\_projects table:

```
CREATE TABLE trainers_projects(
t_code varchar(50) FOREIGN KEY REFERENCES Trainers(trainer_code),
p_code varchar(50) FOREIGN KEY REFERENCES Projects(p_code),
start_date Date,
end_date Date,
number_of_hours_per_project int NOT NULL,
session_count int,
hourly_rate Float,
satisfaction_rate Float,
PRIMARY KEY(t_code,p_code)
)
```

#### 4.2 Creation of Table View

#### Create a view to get the email address only:

CREATE VIEW v\_email AS
SELECT t.trainer\_code, t.trainer\_name, tc.account\_link
FROM Trainers AS t
LEFT JOIN trainer\_account AS tc
ON t.trainer\_code = tc.t\_code
WHERE tc.account link LIKE '%@%';

#### Create a view to get the social media only:

CREATE VIEW v\_socialmedia AS
SELECT t.trainer\_code, t.trainer\_name, tc.account\_link
FROM Trainers AS t
LEFT JOIN trainer\_account AS tc
ON t.trainer\_code = tc.t\_code
WHERE tc.account link LIKE '%www.%';

#### Create a view for the current year:

CREATE VIEW current\_year AS
SELECT \*
FROM trainers\_projects
WHERE year(start\_date) = (SELECT MAX(year(start\_date)) FROM trainers\_projects);

#### Create a view to have both trainers and project names together in the trainer view:

#### 4.3 Data Insertion

#### Inserting data to Trainers table:

```
INSERT INTO
Trainers(trainer code,trainer name,gender,title,workplace,area of expertise,year of expertise,
cv)
VALUES
('Trainer01','AAAAAA','Female','Business Developer','Na','Business
Development',4,'https://www.google.com/drive/'),
('Trainer02', 'BBBBBB', 'Male', 'Business Consultant', 'Na', '(Business Model) Innovation
Consultancy',4,'https://www.google.com/drive/'),
Insert data into trainer_account:
INSERT INTO trainer account(t code, account link)
VALUES
('Trainer01','trainer@gmail.com'),
('Trainer02','trainer@gmail.com'),
('Trainer03','trainer@gmail.com'),
('Trainer04','trainer@gmail.com'),
('Trainer05', 'trainer@gmail.com'),
('Trainer06','trainer@gmail.com'),
('Trainer07','trainer@gmail.com'),
Insert data into the phone number table:
INSERT INTO trainer phonenumber(t code, phone number)
VALUES
('Trainer01','00000000000),
('Trainer02','00000000000'),
('Trainer03','00000000000'),
('Trainer04','00000000000'),
('Trainer05','000000000000),
('Trainer06','00000000000'),
('Trainer07','000000000000),
('Trainer08','00000000000'),
```

```
Insert data into the project table:
```

```
INSERT INTO
Projects(p code,p name,p start date,p end date,org provider,total estimated hours,number
of sessions, budget)
VALUES
('SOA23','Startups of Alex','2023-01-01','2023-06-01','Na',40, 10, 5000),
('SOA22', 'Startups of Alex', '2022-01-01', '2022-06-01', 'Na', 30, 10, 3000),
('SOA24','Startups of Alex','2024-01-01','2024-06-01','Na',40, 10, 6000),
('TIEC24', 'TIEC Pre-incubation', '2024-01-01', '2024-06-01', 'Na', 40, 10, 5000),
('TIEC23', 'TIEC Pre-incubation', '2023-01-01', '2023-06-01', 'Na', 40, 10, 5000),
('TIEC21','TIEC Pre-incubation','2021-01-01','2021-06-01','Na',40, 10, 1000),
('HR23','Heya Raeda','2023-01-01','2023-04-01','Na',90, 45, 10000),
Insert data to project_project_projectcoordinators
INSERT INTO project projectcoordinators(p code, project coordinators)
VALUES
('SOA23','AAA'),
('SOA22','AAA'),
('SOA24','BBB'),
('TIEC24', 'BBB'),
('TIEC23','CCC'),
('TIEC21','HHHHH'),
('HR23', 'SSSS'),
('HR22', 'ZZZ'),
('HR21','ZZZ'),
Insert data into trainers_project table:
INSERT INTO trainers projects(t code,
p_code,start_date,end_date,number_of_hours_per_project,session_count,hourly_rate,
satisfaction rate)
VALUES
('Trainer01','SOA23','2023-01-01','2023-02-01',32,8,400,0.81),
('Trainer01','TIEC23','2023-02-01','2023-03-01',9,3,100,0.81),
('Trainer01','HR23','2023-03-01','2023-04-01',48,12,400,0.81),
('Trainer02','SOA22','2022-01-01','2022-02-01',32,8,300,0.52),
('Trainer02','TIEC24','2024-02-01','2024-03-01',9,3,600,0.2152),
('Trainer02','HR22','2022-03-01','2022-04-01',48,12,500,0.30),
```

#### 4.4 Data Selection

#### **Show the Trainers data**

SELECT\*

FROM Trainers;

#### Show the trainer\_account data:

**SELECT\*** 

FROM trainer account;

#### **Select the trainer data and trainer\_account:**

SELECT t.trainer\_code, t.trainer\_name, tc.account\_link FROM Trainers AS t LEFT JOIN trainer\_account AS tc ON t.trainer\_code = tc.t\_code;

#### Selection of the v\_email:

**SELECT\*** 

FROM v email

ORDER BY trainer code;

#### Selection of the v\_social media:

**SELECT \*** 

FROM v socialmedia

ORDER BY trainer code;

#### Show data from the phone number table:

**SELECT\*** 

FROM trainer\_phonenumber;

#### Join trainers and phone number tables:

SELECT t.trainer\_code, t.trainer\_name, tpn.phone\_number FROM Trainers AS t LEFT JOIN trainer\_phonenumber AS tpn ON t.trainer\_code = tpn.t\_code ORDER BY t.trainer\_code;

#### Show the projects table:

**SELECT\*** 

FROM Projects;

#### Show the project\_projectcoordinators:

**SELECT\*** 

FROM project\_projectcoordinators;

#### Join the data in the project\_projectcoordinators with the Projects:

SELECT p.p\_code, p.p\_name, pc.project\_coordinators FROM Projects AS p LEFT JOIN project\_projectcoordinators AS pc ON p.p\_code = pc.p\_code ORDER BY p.p\_code;

#### Show trainers\_project table:

SELECT \*

FROM trainers projects;

#### Show data for the current year:

**SELECT\*** 

FROM current\_year;

#### Show data for the detailed\_trainers\_projects:

**SELECT\*** 

FROM detailed\_trainers\_projects;

#### Truncate database tables

#### **Trainers Table**

TRUNCATE TABLE Trainers;

#### trainer account

TRUNCATE TABLE trainer\_account;

#### trainer\_phonenumber

TRUNCATE TABLE trainer\_phonenumber;

#### **Projects table**

TRUNCATE TABLE Projects;

#### project\_projectcoordinators table

TRUNCATE TABLE project\_projectcoordinators;

#### trainers\_projects table

TRUNCATE TABLE trainers\_projects;

#### To update a value

UPDATE Trainers
SET year\_of\_expertise = 4
WHERE trainer\_name = "AAAAA";

#### To add new records

**INSERT INTO** 

Trainers(trainer\_code,trainer\_name,gender,title,workplace,area\_of\_expertise,year\_of\_expertise, cv)

VALUES('Trainer31','fgdgsd','Female','Business Developer','Na','Business Development',4,'https://www.google.com/drive/')

#### To delete a value

DELETE FROM Trainers
WHERE t\_code = 'Trainer01';

## 5. Exploratory Data Analysis(EDA):

	Area of expertise	Years of Experience	Social Media	cv	 Projcet 1	Projcet 1 Year	Project 1 hourly rate (EGP)	Project 2	Projcet 2 Year	Project 2 hourly rate (EGP)	Project 3	Projcet 3 Year	Project 3 hourly rate (EGP)	Satifaction rate %
	Business evelopment	4	NaN	Na	 Startups of Alex	2023	400	NaN	NaN	NaN	NaN	NaN	NaN	81.00%
	(Business Model) Innovation Consultancy	4	NaN	Na	 TIEC Pre- incubation	2024	600	NaN	NaN	NaN	NaN	NaN	ИвИ	21.52%
	Digital Marketing	5	NaN	Na	 Talent4Startups	2024	400	NaN	NaN	NaN	NaN	NaN	NaN	55.81%
	Business consultancy	6	NaN	Na	 Startups of Alex	2023	500	NaN	NaN	NaN	NaN	NaN	NaN	57.45%
N	Impact Management	4	NaN	Na	 Ladies Startups League Superstar	2023	200	NaN	NaN	NaN	NaN	NaN	NaN	32.19%

The data provided is not clean it contains columns with only null values like CV, and social media columns, and the format of the data is wide.

Email	Phone Number	Gender	Title	Area of expertise	Years of Experience	No. Projects Joined	Project	Project_year	Satifaction rate %	Project_yearly_rate
@gmail.com	1253334345	Female	Business Developer	Business Development	4	1	Startups of Alex	2023	81.00	400.0
<u>ම</u> gmail.com	1253334345	Male	Business Consultant	(Business Model) Innovation Consultancy	4	1	TIEC Pre- incubation	2024	21 <b>.5</b> 2	600.0
@gmail.com	1253334345	Female	Marketier	Digital Marketing	5	1	Talent4Startups	2024	55.81	400.0
@gmail.com	1253334345	Male	Business Consultant	Business consultancy	6	1	Startups of Alex	2023	57.45	500.0
@gmail.com	1253334345	Female	Project manager	Impact Management	4	1	Ladies Startups League Superstar	2023	32.19	200.0

Dropping the CV, and social media columns that are not important in analysis, and handling missing values by imputing using mean, and median for numeric columns and mode for categorical values the data became clean,

Using the melt() method to unpivot the columns we convert the data from wide format to long format to be ready for analysis.

## 6. Pivot Tables:

This section is divided into three parts.

- → First, an analysis of all years of participation with ICEALEX is conducted.
- → Second, an analysis of the data of the current year.
- → Lastly, a report that shows the full data of the trainer.

#### 6.1 Analysis and Reports overall:

Here we provide an analysis of the whole data through the years.

#### 6.1.1. Count of overall projects for each trainer

area_of_exper	tise All	_	
Row Labels	<b>▼</b> Count of	projects Distinct (	Count of org_provider
AAAAA		3	1
AABBB		2	1
BBBBBB		3	1
CCCCCC		3	1
DDDDDD		3	1
DWSD		2	1
EEEEEE		3	1
FFFFFF		3	1
GGGGGG		3	1
ннннн		2	1
IIIIII		1	1
וווווו		1	1
KKKKKK		1	1
LLLLLL		1	1
мммммм		2	1
NNNNNN		1	1
000000		4	4

This pivot table gives a summary of the <b>count of projects and the number of</b>
organizations, each trainer worked in, throughout all years.

<sup>☐</sup> You can use the filter to pick a specific category.

# 6.1.2. Records of hourly rate and satisfaction rate per trainers and projects throughout the whole years

area_of_expertise	All	▼	
Row Labels	Average of	hourly_rate #	Average of satisfaction_rate
□ 2023			
Heya Raeda		\$400	81.00%
Startups of Alex		\$400	81.00%
TIEC Pre-incubation	1	\$100	81.00%
<b>⊕ AABBB</b>		\$350	82.50%
<b>⊞ BBBBBB</b>		\$467	34.51%
⊕ CCCCCC		\$367	73.60%
<b>⊕ DDDDDD</b>		\$367	73.60%
<b>DWSD</b>		\$350	72.91%
<b>⊕ EEEEEE</b>		\$367	73.60%
<b>* FFFFF</b>		\$367	73.60%

- ☐ This pivot table gives a summary record per each trainer through all years. It includes the projects for each year, the average hourly rate, and the average satisfaction.
- ☐ You can use the filter to pick a specific category.

#### 6.1.3. Reports per subject

start_date (Year)	All ▼		
Row Labels	Count of projects	Average of hourly_rate	Average of satisfaction_rate
(Business Model) Innovation Consultancy	3	\$467	34.51%
Backend Web Development	2	\$650	82.50%
Business consultancy	3	\$367	73.60%
Business Consultant & Team Development	1	\$400	55.81%
Business Development	3	\$300	81.00%
Business Development & Marketing Consultant	1	\$400	55.81%
Business Modeling Consultant	3	\$367	62.47%
Businesss/Marketing/Finance	1	\$400	55.81%
Coach, Facilitator, Board Member, Finance Director	1	\$400	45.00%
Curriculum Development Consultant	1	\$400	75.00%
Digital Marketing	12	\$425	75.20%
Entrepreneurship and Ecosystem Building	1	\$300	90.00%

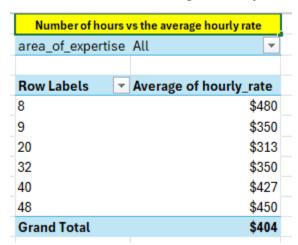
- ☐ This pivot table gives a summary record per category through all years. It includes **the projects for each year, the average hourly rate, and the average satisfaction.**
- ☐ You can use the filter to pick a specific year.

#### 6.1.4. Data per Gender

area_of_expertise	All ▼
Gender	▼
Female	
Count of p_code	21
Average of hourly_rate	\$386
Average of satisfaction_rate	73.23%
Male	
Count of p_code	30
Average of hourly_rate	\$417
Average of satisfaction_rate	65.82%
Total Count of p_code	51
Total Average of hourly_rate	\$404
Total Average of satisfaction_rate	68.87%

- ☐ This pivot table gives a summary record per gender through all years. It includes **the projects for each year, the average hourly rate, and the average satisfaction.**
- ☐ You can use the filter to pick a specific category.

#### 6.1.5. Number of hours vs the average hourly rate



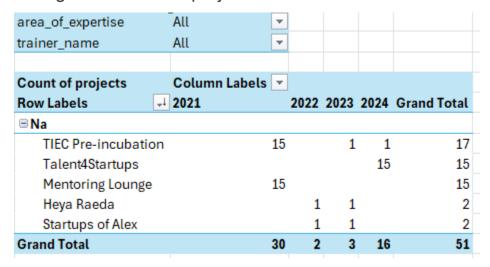
- ☐ This pivot table is to give a view of **the common number of hours vs the average hourly rate**.
- ☐ This is to give a quick expectation on the average hourly rate when making a contract with a trainer.
- ☐ You can use the filter to pick a specific category.(Can be used for new contracts).

#### 6.1.6. Project data over years

Sum of budget	Column Labels 🔻				
Row Labels	2021	2022	2023	2024	<b>Grand Total</b>
Heya Raeda	7000	10000	10000	20000	47000
InvestMED			3000		3000
Ladies Startups League	9000				9000
Ladies Startups League Superstar		10000	10000		20000
Mentoring Lounge	2000			3000	5000
Safir		500			500
Startups of Alex		3000	5000	6000	14000
SwitchMED			3000		3000
Talent4Startups			15000	15000	30000
TIEC Pre-incubation	1000		5000	5000	11000
Grand Total	19000	23500	51000	49000	142500

☐ This pivot table shows the budget of the projects across the years.

#### 6.1.7. Organizations and projects



☐ This pivot table shows the records of organizations, projects, and their count.

☐ This can be filtered by category and trainer name.

#### 6.1.8. View over experience level

area_of_expertis	se All	₩			
Row Labels	Average of hourly_r	rate	Count of p_name	Average of satisfaction_rate	Recent_active_year
2-5	;	\$389	27	68.97%	2024
5-10		\$421	24	68.76%	2024
<b>Grand Total</b>		\$404	51	68.87%	2024

- ☐ This pivot table shows <u>number of count</u>, <u>average hourly rate</u>, <u>and average</u> <u>satisfaction rate according to the level of experince through all active years</u>.
- ☐ Can be filtered based on category.(Can be used for new contracts)

# 6.1.9. Last active year and the hourly rate corresponding to this year for each trainer

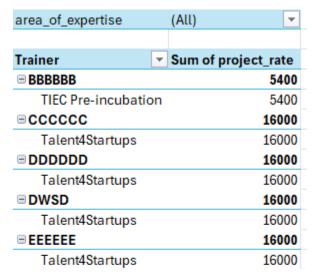
area_of_expertise	All	<b>V</b>
Row Labels	Recent_active_ye	ear Average of hourly_rate
AAAAA	20	2023 \$300.00
AABBB	20	2021 \$350.00
BBBBBB	20	2024 \$466.67
CCCCCC	20	2024 \$366.67
DDDDDD	20	2024 \$366.67
DWSD	20	2024 \$350.00
EEEEEE	20	2024 \$366.67
FFFFFF	20	2024 \$366.67
GGGGGG	20	2024 \$366.67
ннннн	20	2024 \$400.00
IIIIII	20	2021 \$300.00
וווווו	20	2024 \$400.00
KKKKKK	20	2021 \$400.00
1		

- ☐ This pivot table **shows the last year, a trainer was active with ICEALEX and the corresponding hourly rate in this year.**
- ☐ Can be filtered using category.

#### 6.2 Analysis and Reports for the current year:

Here we provide an analysis of the data generated for the current year.

6.2.1. Trainer and project\_rate per project for the current year



- ☐ This pivot table shows the <u>active trainers</u>, <u>current projects</u>, <u>project rate for each project and the total project rate for the <u>current year</u>.</u>
- ☐ Can be filtered based on the category.
- 6.2.2. Average hourly rate for the current year per trainer

area_of_experti	se	(All)	₩.	
Row Labels	4	Average of hourly	_rate	Ave
MMMMMM			\$800	
BBBBBB			\$600	
CCCCCC			\$400	
ПППП			\$400	
RRRRRR			\$400	
DWSD			\$400	
DDDDDD			\$400	
EEEEEE			\$400	
000000			\$400	
FFFFFF			\$400	
SSHH			\$400	
GGGGGG			\$400	

- This pivot table shows the <u>active trainers, their average current hourly rate</u>, and the <u>average satisfaction rate for the current year</u>.
- ☐ Can be filtered based on the category.

#### 6.2.3. Average hourly rate for the current year per trainer

area_of_experti	se (All)	~	
Row Labels	→ Average of hora	ourly_rate Avera	ge of satisfaction_ra
MMMMMM		\$800	55.8
BBBBBB		\$600	21.5
CCCCCC		\$400	55.8
TTTTTT		\$400	50.0
RRRRRR		\$400	55.8
DWSD		\$400	55.8
DDDDDD		\$400	55.8
EEEEEE		\$400	55.8
000000		\$400	55.8
FFFFF		\$400	55.8
SSHH		\$400	55.8
GGGGGG		\$400	55.4

- ☐ This pivot table shows the <u>active trainers</u>, <u>their average current hourly rate</u>, <u>and the average satisfaction rate for the current year</u>.
- ☐ Can be filtered based on the category.

#### 6.2.4. Average hourly rate vs years of experience for the current year



- ☐ This pivot table is to give a view over **the common number of hours vs the average hourly rate for the current year**.
- ☐ This to give a quick expectation on the average hourly rate when making a contract with a trainer.
- ☐ You can use the filter to pick a specific category.(Can be used for new contracts)

#### 6.2.5. Project data for the current year

area_of_expertise	(A	ll) ▼		
Row Labels	Ψ Aν	erage of budget	Average of total_estimated_hours	Average of satisfaction_rate
Talent4Startups		15000	120	55.40%
TIEC Pre-incubatio	n	5000	40	21.52%
<b>Grand Total</b>		14375	115	53.28%
_			_	

- ☐ This pivot table shows the current active projects' data for the current year.
- ☐ Can be filtered based on category.

#### 6.2.6.Details of projects and trainers for the current year

area_of_expertise	(All)				
Row Labels	Count of p_code	Sum of number_of_hours_per_project	Average of hourly_rate	Sum of project_rate	Average of satisfaction_rate
<b>■ BBBBBB</b>	1	9	\$600	\$5,400.00	21.52%
TIEC Pre-incubation	n 1	9	\$600	\$5,400.00	21.52%
<b>□CCCCCC</b>	1	40	\$400	\$16,000.00	55.81%
Talent4Startups	1	40	\$400	\$16,000.00	55.81%
<b>■ DDDDDD</b>	1	40	\$400	\$16,000.00	55.81%
Talent4Startups	1	40	\$400	\$16,000.00	55.81%
■DWSD	1	40	\$400	\$16,000.00	55.81%
Talent4Startups	1	40	\$400	\$16,000.00	55.81%
<b>■ EEEEEE</b>	1	40	\$400	\$16,000.00	55.81%
Talent4Startups	1	40	\$400	\$16,000.00	55.81%
■FFFFFF	1	40	\$400	\$16,000.00	55.81%

- ☐ This pivot table is to give <u>a summary for current year's projects fot each trainer</u>.
- ☐ You can use the filter to pick a specific category.

#### 6.2.7. Trainer and organization



- This pivot table shows a <u>summary of the organizations and the projects the trainer</u> <u>participated in for the current year.</u>
- ☐ Can be filtered based on category.

## 6.2.8. View over experience level for the current year

area_of_experti	se (All)		
Row Labels	▼ Count of p_code	Average of hourly_rate	Average of satisfaction_rate
2-5	8	\$425	51.52%
5-10	8	\$450	55.03%
<b>Grand Total</b>	16	\$438	53.28%

- ☐ This pivot table shows <u>number of count, average hourly rate, and average</u> <u>satisfaction rate according to the level of experience for *current year*.</u>
- ☐ Can be filtered based on category.

## 6.3. A report of the trainer's raw data

This report will be generated on picking a trainer from the list.

Please ch	oose a trainer	for the li	st below			
Trair	ner Name	ШШ	~			
t_code	trainer_name	gender	p_code	p_name	area_of_expertise	start_da
Trainer09	IIIIII	Male	TIEC21	TIEC Pre-incubation	Senior Consultant	01-01-

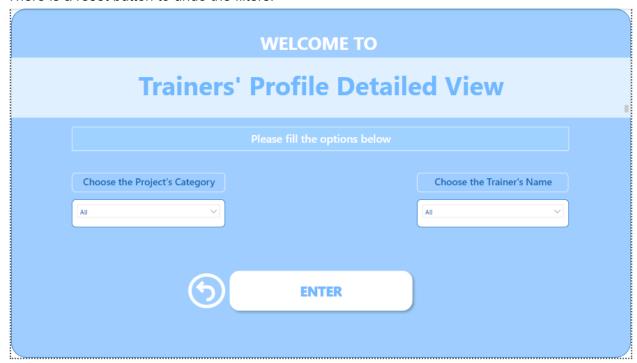
This view provides all the details for the trainer through the years.

You need to pick the trainer's name from the dropdown list and all the trainer's details will appear.

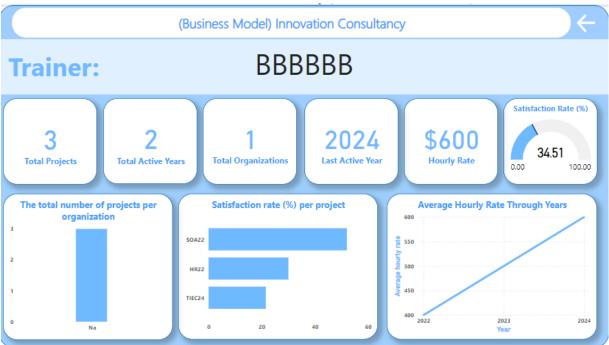
## 7. Analysis and Graphs:

Here, we made a front page where you need to pick the area of expertise and the trainer's name to access the detailed view of the chosen trainer.

There is a reset button to undo the filters.



After choosing from the slicers and pressing enter, a detailed dashboard including all the trainer's details and the projects, the trainer participated in.



## 8. Recommendations:

These are simple recommendations, we thought of while working on the project, to enhance the efficiency of the whole process:

- Fill in all fields when using the dashboard to avoid incorrect data.
- Categorize the area of expertise to subjects like(Data analysis, Marketing, etc..).
- For the project's code entry, use the first letter of each word in the project name and the last two digits in the year to ensure its uniqueness.
- Satisfaction rate, we recommend adding an instant comment section if the rank applied doesn't meet the target value. This will help get the cause of low rankings and help with improvement.
- Convert the years of expertise to experience levels instead.