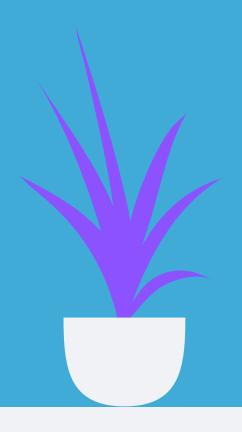
IRONHACK QUALITY ANALYSIS

SQL PROJECT - WEEK 2
DATA ANALYTICS BOOTCAMP
JUNE 2021



IRONHACK

QUALITY ANALYSIS



01

Give a striking overview of the business analysis

02

Elaborate on the technical skills used for the analysis

03

Discuss the implications of the Quality Analysis in the Ironhack environment 04

Describe the difficulties found along the process

05

Room-for-improvement

06

Ironhack - Quality Analysis Recap

IRONHACK

QUALITY ANALYSIS





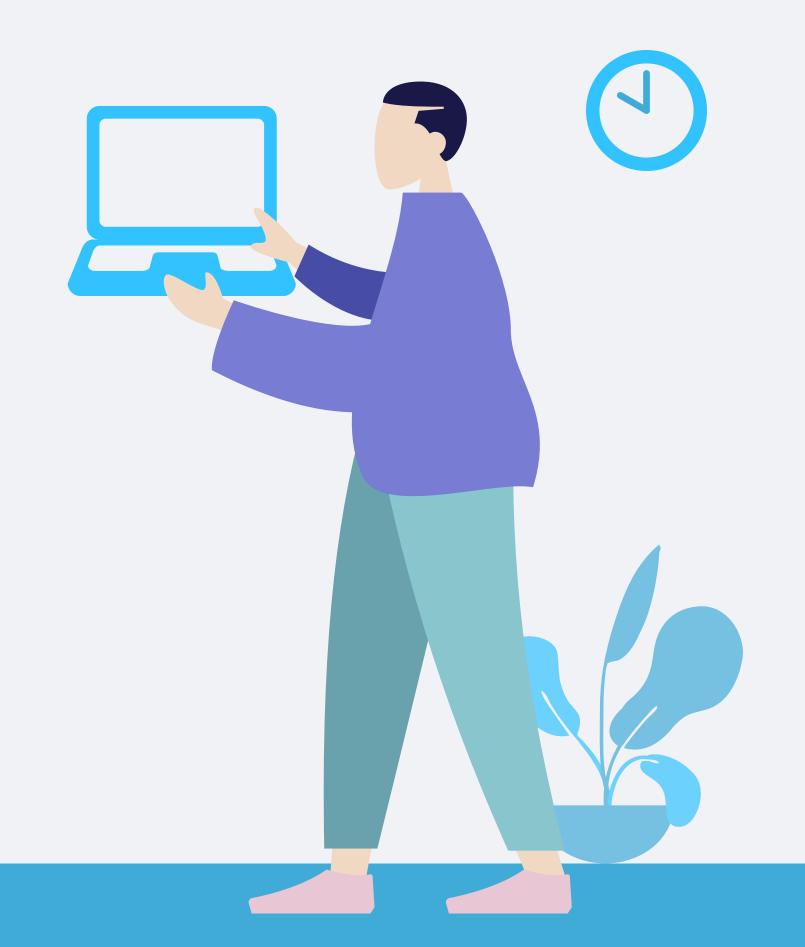


Ironhack Channel

Channel	COUNTA o
Course Report/Switch up/Quora	15
Google	85
Ironhack Event	10
Landing jobs	7
Linkedin	9
Newspaper/magazine	19
other	42
Referral	93
Social Media	34
Grand Total	314

TECHNICAL SKILLS

- Understand the script
- Add schools
- Clean data
- Creat the database ironlise
- Populate database sqlalchemy
- Create EEG Diagram
- Data Analysis (Python):
 - relevant no of comments
 - relevant time frame
 - comparison between Ironhack ratings and Similar & Lisbon groups of schools



GROUPS OF SCHOOLS



SIMILAR

Schools identified by the Switch Up as being similar to Ironhack

- App Academy
- Springboard
- Metis
- Practicum by Yandex

LISBON

All schools that offer programmes in Lisbon

- Le Wagon
- Academia de Codigo
- React GraphQL Academy

Key Metrics

Assumption: comments are representative of satisfaction of cohort



5335 comments

comments_table.shape

Mostly 4 & 5s rating

Redifine quality

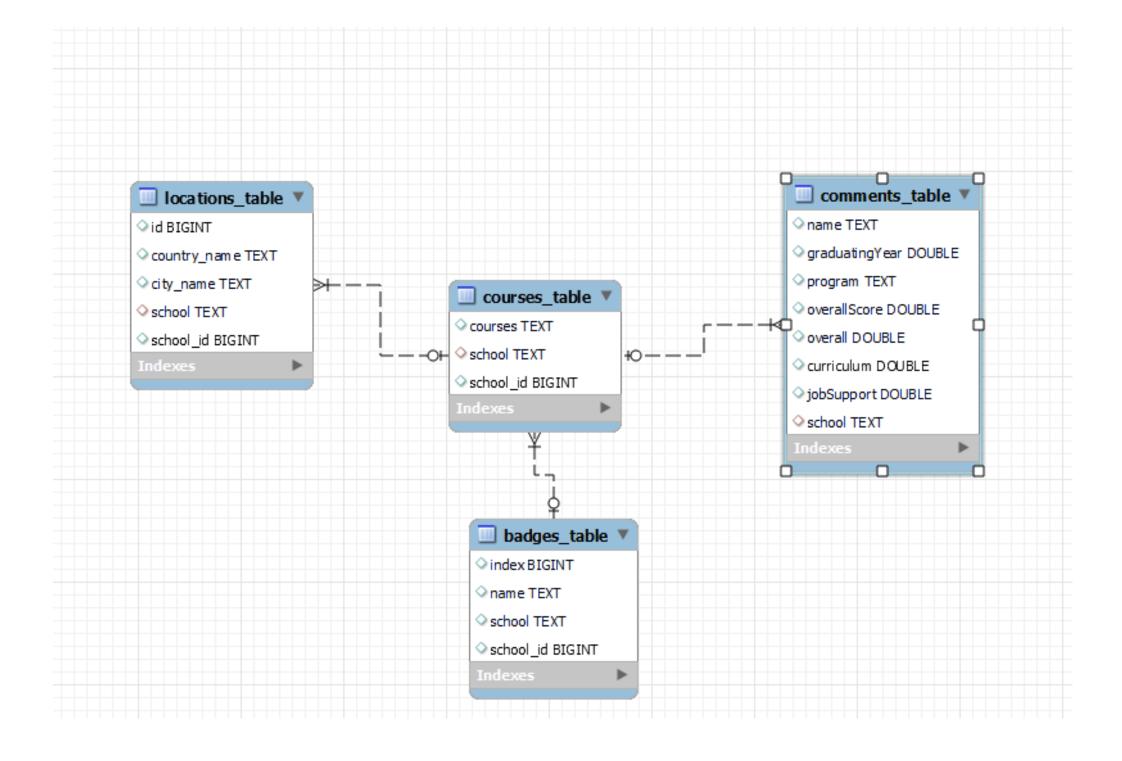
2017-2020

Relevant timeframe



EEG DIAGRAM

School_id



Mean Ratings : Year & School

Graduating Year	school	Overall Score	Overall	Curriculum	Job Support
2017.0	academia-de-codigo	4.933333333333334	4.933333333333334	4.93333333333333	4.93333333333333
2017.0	app-academy	4.631896551724141	4.655172413793103	4.685344827586207	4.0905172413793105
2017.0	ironhack	4.871717171717172	4.9141414141414	4.73232323232323	4.7525252525253
2017.0	le-wagon	4.949226006191954	4.993808049535604	4.95046439628483	4.585139318885449
2017.0	metis	4.854285714285715	4.942857142857143	4.771428571428571	4.542857142857143
2017.0	react-graphql-academy	5.0	5.0	5.0	5.0
2017.0	springboard	4.6	4.791044776119403	4.731343283582089	3.462686567164179
2018.0	academia-de-codigo	4.983333333333333	5.0	5.0	4.66666666666666666
2018.0	app-academy	4.671921182266011	4.704433497536946	4.714285714285714	3.374384236453202
2018.0	ironhack	4.871197411003239	4.906148867313916	4.789644012944984	4.792880258899676
2018.0	le-wagon	4.946466809421844	4.982869379014989	4.944325481798715	4.342612419700214
2018.0	metis	4.882352941176471	4.882352941176471	4.9411764705882355	3.6470588235294117
2018.0	react-graphql-academy	4.96666666666667	5.0	4.8888888888888	3.33333333333333
2018.0	springboard	4.5736040609137065	4.680203045685279	4.573604060913706	3.182741116751269

2017

- Higher mean overall score than Similar group
- Lower mean overall score than Lisbon group

2018

- Higher mean overall score than Similar group
- Lower mean overall score than Lisbon goup

2019

- Higher mean overall score than Similar group
- Lower mean overall score than Lisbon goup

2020

- Higher mean overall score than Similar group
- Lower mean overall score than Lisbon goup

		overallScore	overall	curriculum	jobSupport
graduatingYear	bootcamp				
2017.0	Lisbon	4.937500	4.937500	4.937500	4.937500
	Similar	4.648802	4.712575	4.703593	4.011976
	ironhack	4.871717	4.914141	4.732323	4.752525
2018.0	Lisbon	4.977778	5.000000	4.962963	4.222222
	Similar	4.634053	4.700240	4.657074	3.294964
	ironhack	4.871197	4.906149	4.789644	4.792880
2019.0	Lisbon	4.818367	4.857143	4.714286	4.000000
	Similar	4.525408	4.673660	4.487179	3.969697
	ironhack	4.765438	4.801843	4.700461	4.774194
2020.0	Lisbon	4.937500	4.937500	4.937500	4.937500
	Similar	4.518868	4.641509	4.464837	4.319039
	ironhack	4.728804	4.820652	4.777174	4.527174
2021.0	Lisbon	4.984211	5.000000	5.000000	4.947368
	Similar	4.678070	4.785088	4.574561	4.434211
	ironhack	4.815000	4.950000	4.800000	4.700000

Comparison Table of Mean Ratings per Year & Group of Schools (2017-2021)

2017

- Lower mean overall than Lisbon group
- Lower mean curriculum than Lisbon group
- Lower job support than Lisbon group

2018

- Lower mean overall than Lisbon group
- Lower mean curriculum than Lisbon group
- Higher job support than Lisbon group

2019

- Lower mean overall than Lisbon group
- Lower mean curriculum than Lisbon group
- Higher job support than Lisbon group

2020

- Lower mean overall than Lisbon group
- Lower mean curriculum than Lisbon group
- Lower job support than Lisbon group

		overallScore	overall	curriculum	jobSupport
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Comparison Table of Mean Ratings per Year & Group of Schools

(2017-2021)

Comments

Hypothesis: bad rating meant a bad review



Overall

"However, a nine-week program cannot quite prepare you for a software engineering role without continuous self-studying."

Petra Spirkova, 2017

Curriculum

"Even though they claim to update their CURRICULUM according to industry trends it hasn't really changed much."

Thomas, 2017

Job Support

"When it came to job placement there is barely any. Be prepared to be on your own and in a sea of competing designers."

Anonymous, 2019

QUALITY TRENDS

In the timeframe studied, <u>Ironhack mean overall scores</u> were always <u>higher than</u> the mean overall scores of <u>Similar Schools</u>.

- Ironhack's quality is higher than that of Similar Schools
- Switch Up's AI "You may also like" is not correctly providing alternatives to Ironhack's programmes.



GOOD NEWS FOR IRONHACK!



QUALITY TRENDS

In the timeframe studied, <u>Ironhack's mean overall scores</u> were always <u>lower than</u> the mean overall scores of <u>Lisbon Schools</u>.

- Ironhack's mean <u>curriculum</u> rating tends to be <u>lower</u> than that of <u>Lisbon Schools</u>.
- Ironhack's mean job support rating tends to be lower than that of Lisbon Schools.

Job Support rating had been increasing for Ironhack until 2020 (COVID pandemic & scarcity of employment offers)

Curriculum rating has always had a comparatively high difference in comparison with Lisbon Schools

PROBLEMATIC DIMENSION: CURRICULUM

POSSIBLE SOLUTIONS



1:1 SESSIONS

Students & Teachers



COMMUNICATION

Between campuses & Ironhack



ADAPTABILITY

Curriculum updates & adaptations



DIFFICULTIES

- Data Cleaning
- Creation of an "All Schools" group
- Web Scrapping gather alternative KPIs

IMPROVEMENTS

- Analysis of Ratings & Influence on Student Intake
- Quality Analysis by Specific Programme & Country

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