# Programmer Analyst Trainee

Major project report submitted in partial fulfillment of the requirement for the degree of Bachelor of Technology

In

Computer Science and Engineering

By

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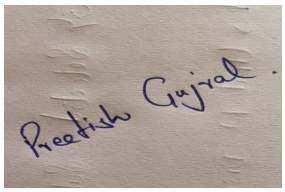
# Candidate's Declaration

I hereby declare that the work presented in this report titled "Internship Report" in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering/Information Technology submitted in the department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology Waknaghat is an authentic record of my own work carried out over a period of six months beginning in August of this year.Under the supervision of Purbita Mukherjee( Trainer At Cognizant)

The report's contents have not been submitted for the granting of any other degree or certificate.



(Student Signature)

Student Name:Preetish Gujral

Roll no.:181475

This is to certify that the above statement made by the candidate is true to the best of my knowledge.

Supervisor Name:Dr Pardeep Kumar Khokkar

Associate Professor

Dated:13/05/2022

# ACKNOWLEDGEMENT

To begin, I would like to offer my heartfelt gratitude and appreciation to Almighty God for His wonderful grace, which has enabled us to successfully finish the project work.

I am really grateful and desire to express my heartfelt gratitude to my supervisor, Mr. Prudhvi Mukherjee. My supervisor's deep knowledge and genuine interest in the subject of Machine Learning are essential for carrying out this research. His unending patience, intellectual direction, consistent encouragement, persistent and vigorous supervision, constructive criticism, helpful counsel, reading many poor versions and correcting them at all stages, and reading and correcting them at all stages enabled us to accomplish this project.

I would like to convey my heartfelt thanks to Mr. Prudhvi Mukherjee, for his generous assistance in completing my research.

I would also like to express my gratitude to everyone who has directly or indirectly assisted me in making this project a success. In this unusual scenario, I would like to thank the many staff members, both teaching and non-teaching, who have created their convenient assistance and helped my project.

Finally, I must express my gratitude for my parents' unwavering support and patience.

Preetish Gujral

(181475)

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# Abstract

At Cognizant's Gen C programme, we are separated into different areas, each with its own training term ranging from 12 to 19 weeks. Educational workshops, webinars, Udemy courses, and group work projects are all part of the internship.

A big IT firm with offices in both the United States and India. Last year, Cognizant hired a big number of Indians, and it now employs almost 3 lakh people. The Cognizant Corporation also employs overseas individuals from all around the world.

Cognizant offers a variety of services to a huge number of clients in the IT sector, and they're also affiliated with one of the fastest-growing businesses. Workplace culture is as professional as one would expect.

# Chapter1 : Organization

## 1.1 Background:

After the end of the seventh semester, various companies came to our college to place students, one of which was cognizant. Due to my good fortune, I was selected for the Gen-C profile, and after being selected as Gen-C, I was offered an internship programme by the cognizant before being hired full-time, and completing the internship is required for the full-time position at cognizant. The internship lasted around 12 weeks and included a variety of workshops, webinars, online Udemy courses, assessments, and a project.

Cognizant is a prominent IT firm in the United States and one of the top IT companies in India. Cognizant employs over 3 lakh individuals and hires approximately 20,000 new workers from India each year. Cognizant also employs people from all across the world.
Cognizant provides a variety of roles in the organization, including developer, designer, tester, and manager. However, before becoming an associate, everyone must complete an intern period, and following the intern period, the associate must finish a one-year probation term before joining the company.

During the internship time, Cognizant also pays a stipend of roughly Rs12,000 per month to interns who are pursuing internships.
However, the total amount in the hands of the individual is just 10800 because 1200 is removed for tax purposes.
The internship time varies and is dependent on the positions that the intern is assigned to. For example, someone assigned to the developer profile may have an internship term of roughly 4-5 months, whereas someone assigned to quality assurance may have an internship period of 5-6 months.
In the programme for interns, domain assignment is random, but it may also be influenced by the assimilation exam; the individual who scored higher on the assimilation test has a better chance of receiving a better profile or domain.

## 1.2 **Mission, vision, values and objectives:**

### Mission:

The aim of Cognizant is to train every new worker that is hired at the company. Every worker that is hired by Cognizant is provided with an internship.

Every year, cognizant trains a large number of college freshmen before assigning them to associate roles. This recruit comes from colleges all throughout India.

Cognizant invests a significant amount of time, effort, and money on educating interns before assigning them meaningful work and allowing them to work in a real-world setting.

**Vision:**The clear objective is to train every fresh out student recruited from the college, regardless of where they came from.

**Values**
The values of the organization are as follows:

- Putting People First
  We feel that people are the most important factor in our success. We will build and sustain high-quality, mutually beneficial relationships with our clients, professional colleagues, referral sources, vendors, community members, and each other by treating people with respect in all we do.

- Client Relationship Management
  We strive to build long-term customer loyalty by gaining a thorough knowledge of each client's company and personal objectives, exhibiting unshakable reliability and integrity in our work, and serving as an impartial and objective adviser.

- Maintaining High Standards and Integrity
  We will foster an atmosphere in which everyone in our firm is guided by a dedication to excellence, honesty, respect, fairness, and professional ethics in their actions and judgments.

**Keys to Success:**

• Complete the work with full honesty.

• Complete the work on time.

• Complete the assessment.

• Complete the project within scheduled time.
• Try to learn as much as possible from the SME, Trainer, mentor.
• Open to learn anything taught.



**Objectives:**

The objectives of Cognizant are:

- The overarching goal is to concentrate activity on specialized services and to become a national leader in this field.
- Growth - To expand the business at a pace that is both demanding and manageable, while providing innovative and adaptable services to the market.

## 1.3. Ice breaker

**Week 1:**

Corporate induction.

Talent Manager connect.

Cognizant Agenda session on cores values.

Leaders Talk (Academy) and many more.

**Week 2:**
Behavior Skills.

Agile Workshop.

Dev-Ops Workshop

Behavior session.

## IceBreaker


- Corporate Induction
- Talent Manager Connect
- Cognizant Agenda Session on Core Values
- Leader Talks (Academy) and many more...

- Behavioral Skills
- Agile Workshop
- DevOps Workshop
- Behavioral Session

# CHAPTER - 2
# INTERNSHIP PROGRAM SEQUENCE

## 2.1 Stage 1 – Database fundamentals & Softskills

I was inducted as a team member in my cohort then, this Database fundamentals & Softskills program started, this testing fundamentalDatabase fundamentals & Softskills s consist of a single week training in which we have to learn various technology and do various hands-on and assessment during this Database fundamentals & Softskills  sequence.

**Week 1 and 2:Database fundamentals & Softskills**

This week, we must all complete Udemy courses offered by the cognizant throughout the internship, as well as the hands-ons, evaluation (which is critical), and the integrated competency exam.

This week, we learnt about the designing portion of the project, which includes testing the apps. We used to give assessment, a small test whose marks were taken into account, for the calculation of the final overall performance, after we completed the online Udemy courses. Completing the hands-ons is mandatory for every intern, and after we completed the hands-ons, we used to give assessment, a small test whose marks were taken into account, for the calculation of the final overall performance.

The most significant aspect of this week was learning Database Fundamentals and Softskills, as well as doing all of the hands-on exercises in such a short amount of time.

Below is the snippet of hands on done in Database fundamentals & Softskills

### Hands-On

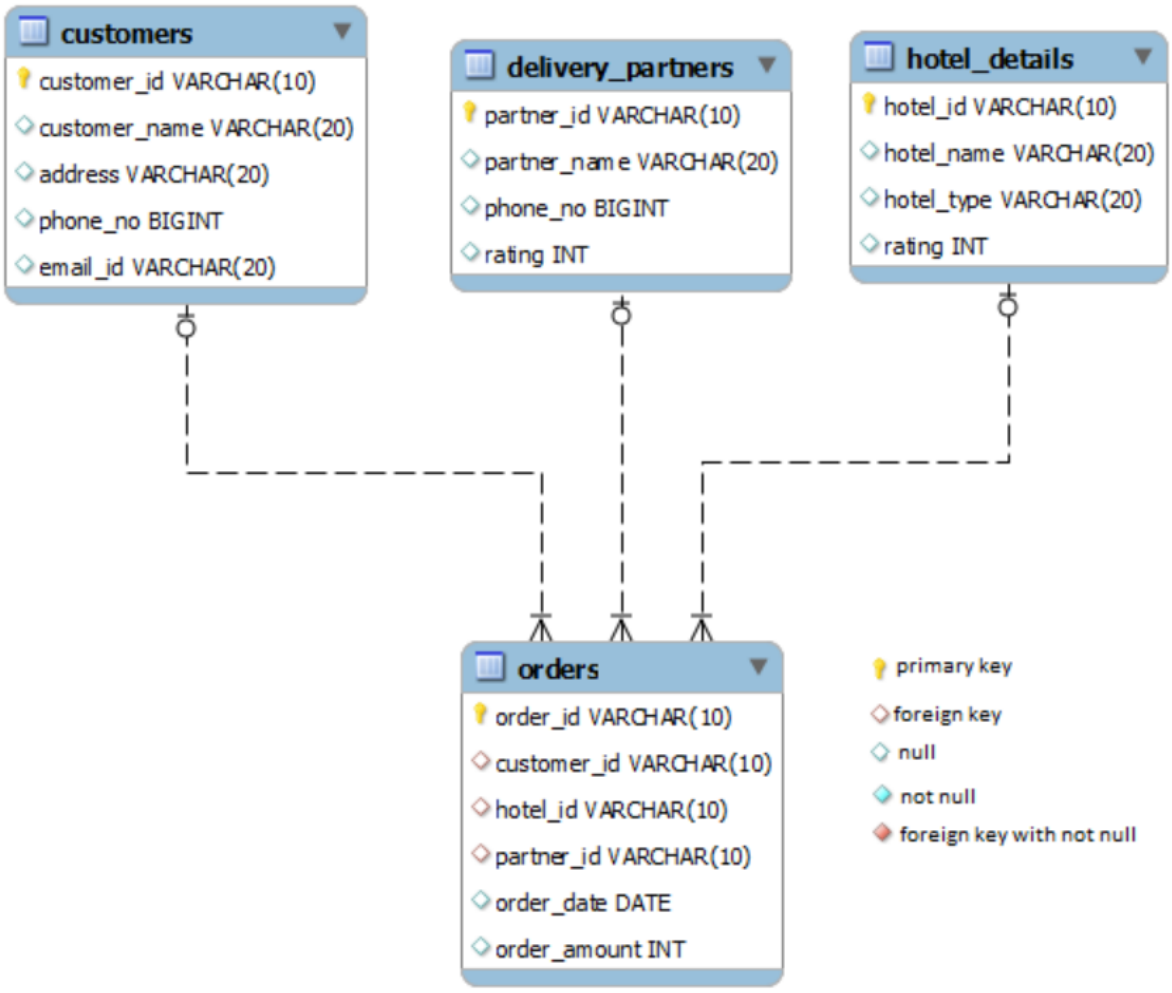
- Customers having gmail id — XP : 5 / 5
- Car rental system - Create Table — XP : 5 / 5
- car rental system - Insert values — XP : 5 / 5
- Hunger eats - update table — XP : 5 / 5
- Hunger eats - change datatype — XP : 5 / 5
- Delivery Partner details based on rating — XP : 5 / 5
- Insert Records - Department — XP : 5 / 5
- Department name based on block number — XP : 5 / 5
- Student and their Department Based on City — XP : 5 / 5

- Car rental system - add new column — XP : 5 / 5
- Hunger eats - Change the field name — XP : 5 / 5
- Car details based on type and name — XP : 5 / 5
- Car & owner details based on car type — XP : 5 / 5

### Hands-On

- Total sale daywise — XP : 5 / 5
- Concatenating Details — XP : 5 / 5
- Maruthi car owner details — XP : 5 / 5
- Rental details based on date — XP : 5 / 5
- Hotels that took order based on month — XP : 5 / 5
- Review of delivery partner based on rating — XP : 5 / 5
- Hotels that took order more than five times — XP : 5 / 5
- Order details — XP : 5 / 5
- Customer contact details — XP : 5 / 5

- No of time rented by each car — XP : 5 / 5
- Hotels not taken orders in a specific month — XP : 5 / 5
- Credential details — XP : 5 / 5
- Cars not taken for rent — XP : 5 / 5
- Hotel_info — XP : 5 / 5
- Customer mail details — XP : 5 / 5



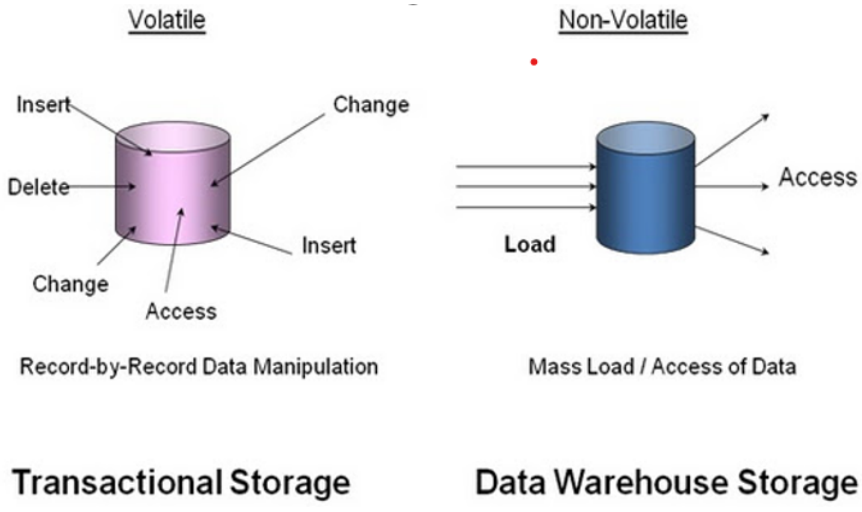

sample.sql

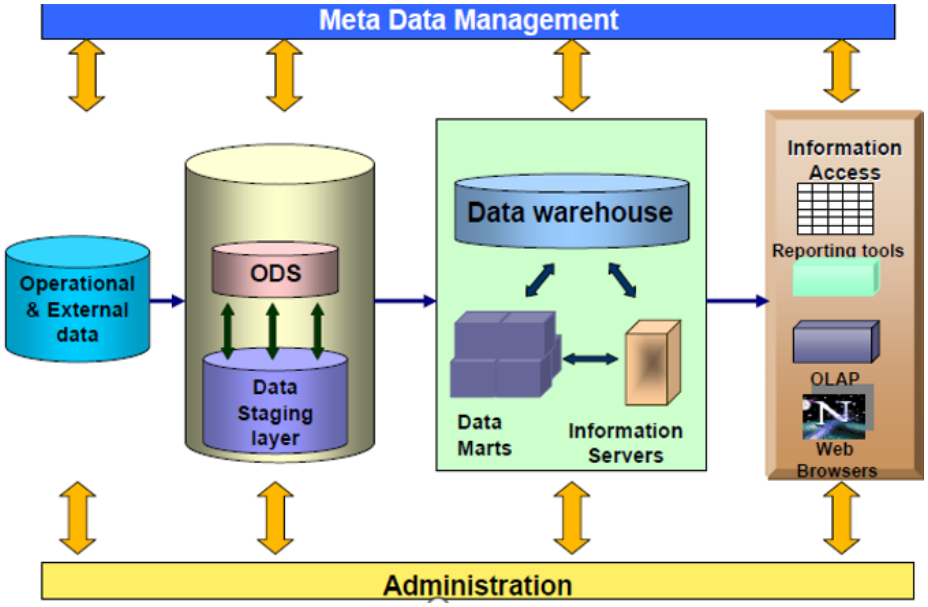
```sql
ALTER TABLE hotel_details CHANGE `rating` `hotel_rating` INT;
```

## 2.2 Stage 2- Data Warehouse Fundamentals & Soft skills
## Week 2,3:

In this week we all have to do is to compete Udemy courses provided by the cognizant during the internship, complete the hands-ons, assessment(important), and to complete the integrated capability test also.
In this week 2 we learned the Data Warehouse Fundamentals & Soft skills with the help of the Udemy courses and trainer guide queries.
After we completed the online Udemy courses, we did the hands-ons and completing the hands- on is mandatory for every intern and then, after completing the hands-ons we use to give assessment, a small test whose marks were taken into account, for the calculation of the final overall performance.
Data Warehouse Fundamentals:
The Data Warehouse is a collection of data in support of management decision processes, which is:
Subject oriented
Integrated
Time variant
Non-volatile

A Data Warehouse is a relational database that is designed for query and analysis.
It usually contains historical data derived from transaction data and other sources.



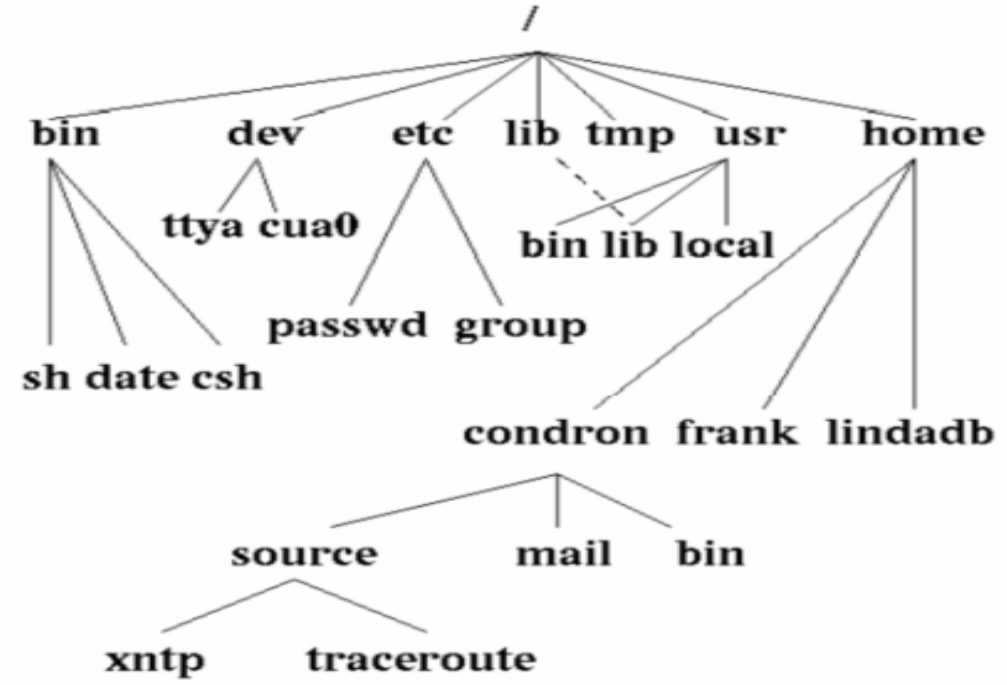



In this module we learnt about the basics of unix and ETl as well

What exactly is Unix? Multi-user, multitasking, and multiprocessor multi-user, 32/64-bit operating system Is the X Windows graphical user interface compatible with other operating systems? Runs on a variety of platforms Source code is included.

Features Of Unix:
Multiple users can share system resources using a multi-user system. Time slicing is used. Multitasking: Performing several things at once. Jobs in the background and foreground Portability: Ability to work with little adjustments on varied hardware Because it is built in a high level language - C - the entire OS, including its File System, Utilities, and Applications, may be relocated.

What exactly is a file system? Kernel's abstraction for representing and organising storage resources. File system in UNIX: Is set up in a tree structure. A file tree can have any depth. The file name cannot be more than 256 characters long. A single route name cannot be more than 1023 characters long.




What exactly is an ETL? Extraction, transformation, and loading is referred to as ETL. These procedures are necessary for moving operational data to a data warehouse or presentation area.

Extraction is a procedure that entails reading and comprehending the source material. It also entails transferring the original data into the staging area, where it may be further processed.

Transformation: A variety of processes are transformed throughout the ETL process: Cleaning data include correcting spelling, checking for missing information, and checking for and resolving domain issues. Data from several sources is combined. Data deduplication. The distribution of warehouse keys.

Loading: The integrated data is loaded into the data warehouse's display area. If the data is normalised before being loaded, it is referred to as an enterprise data warehouse. Sorting and sequential data processing are also part of the data staging area. It might be made up of flat files. It takes a long time and is more expensive. It is preferable to improve the display area than spend time standardising the data before loading it.

Below is the snippet of Unix and Shell scripting hands on

## Mandatory Hands-On

| | |
|---|---|
| Directory Creation - 1 | XP : 3 / 3 ✅ |
| Copy File 1 | XP : 3 / 3 ✅ |
| File Permission 2 | XP : 3 / 3 ✅ |
| File Permission 3 | XP : 3 / 3 ✅ |
| List Names | XP : 3 / 3 ✅ |
| Count Files | XP : 3 / 3 ✅ |
| Pattern Search | XP : 3 / 3 ✅ |
| Word Search | XP : 3 / 3 ✅ |
| Redirect Command - 1 | XP : 3 / 3 ✅ |

directory.sh

```
rm vpl_cleanup.sh
mkdir mydir
mkdir -p mydir/colors
mkdir -p mydir/shape
mkdir -p mydir/animals

mkdir -p mydir/animals/mammals
mkdir -p mydir/animals/reptiles

touch mydir/animals/mammals/bat
touch mydir/animals/mammals/dog
touch mydir/animals/mammals/platypus

touch mydir/animals/reptiles/snakes
touch mydir/animals/reptiles/crocodile
touch mydir/animals/reptiles/lizard

mkdir -p mydir/colors/basic
mkdir -p mydir/colors/blended

touch mydir/colors/basic/blue
touch mydir/colors/basic/green
touch mydir/colors/basic/red

touch mydir/colors/blended/yellow
touch mydir/colors/blended/orange
touch mydir/colors/blended/pink
```

**2.3 Stage 3 –Python**

**Week 4 and 5:**

In week 4 and 5 we were asked to learn the concepts of python

Python is commonly used for website and software development, task automation, data analysis, and visualization of data. Python is being used by many non-programmers, such as accountants and scientists, for a variety of common jobs, such as banking company, since it is very simple to learn.

In today's environment, where technology is prevalent in all aspects of our lives, choosing a programming language that can efficiently handle real-world problems is critical. A programming language like Python is an example of this. Python has grown in popularity in recent years as a result of its use in a range of industries, including software engineering, machine learning, and data science, to mention a few. Python's popularity can be attributed to the enormous number of libraries that are available. As a result, many prospective programmers are turning to Python as their preferred programming language. As a result, we'd want to teach our readers how to use the most popular Python libraries.

A library is a collection of utility methods, classes, and modules that you may use in your application code to do certain tasks instead of writing them from scratch. Because the scope of libraries' APIs (Application Programming Interfaces) is often limited (for example, Strings, Input/Output, and Sockets), they are smaller and require fewer dependencies. It's simply a set of class definitions. The question that everyone should be asking right now is why we need libraries in the first place. The explanation for this is simple: code reuse. Simply said, code reusability means that we may use code generated or produced by others for our own needs. For example, in several libraries, findLastIndex(char) retrieves the last index of a character in a string.

What can Python do for you? Some examples are:

- Machine learning and data analysis
- Website creation
- Scripting or automation
- Prototyping and testing of software
- Routine chores

Since I am in bisquad, lets see how python is used there:

Python has become a data science mainstream technology, allowing data analysts and other professionals to do complex statistical calculations, create visualisations, design machine learning algorithms, handle and analyse data, and accomplish other data-related jobs.

Python can create a broad variety of data visualisations, such as line and bar graphs, pie charts, histograms, and 3D plots. TensorFlow and Keras are two Python frameworks that let programmers create data analysis and machine learning systems more rapidly and effectively.

The easy to use Python is a computer language that is frequently utilised in real-world applications. Because it is a high-level, dynamically typed, interpreted language, its use in error debugging is rapidly growing. Python is increasingly being used in global applications like YouTube, DropBox, and others. Furthermore, Python libraries make it possible for users to do a variety of tasks without having to write their own code. As a result, understanding Python and its libraries is essential for today's rising talent. Python is the language of the future due to its widespread application in fields such as Data Science, Machine Learning, Software Engineering, and others.

Below are the snippet of some python hands on that i have done

courses.py

```
n=int(input("Enter number of courses: "))
d={}
if n>=1:
    for i in range(n):
        print("Enter name of the subject and marks respectively:")
        name=input()
        mark=int(input())
        if mark<0 or mark>100:
            print("Invalid mark")
            exit()
        d[name]=mark
    print("The courses you have cleared are:")
    for key,value in d.items():
        if value>=80 and value<=100:
            print(key,value)
else:
    print("Invalid no. of courses")
```

```python
n=int(input("Enter the no of student details to be created : "))
data=[]
subdict={}
if n>0:
    for i in range(n):
        name=input("Name: ")
        age=int(input("Age: "))
        if age<10 or age>20:
            print("Invalid Input")
            exit()
        location=input("Location: ")
        subdict.update({'Name':name,'Age':age,'Location':location})
        data.append(subdict)
        subdict={}
    print("Here's the list of student details :")
    for i in data:
        print(i)
    sn=input("Enter the training location: ")
    res=[sub['Name'] for sub in data if sub['Location']==sn]
    if not res:
        print("Invalid location")
    else:
        print("Student(s) enrolled in this training location:")
        for i in res:
            print(i)
else:
    print("Invalid Input")
```

## Python - Introduction, Datatypes, Functions

| | |
|---|---|
| Alien's Visit | XP : 4 / 4 ✓ |
| Income Tax | XP : 4 / 4 ✓ |
| News Report Generation | XP : 4 / 4 ✓ |
| Palindrome | XP : 4 / 4 ✓ |

## Operators and Collections

| | |
|---|---|
| Search Student Data | XP : 4 / 4 ✓ |
| Password Protection | XP : 4 / 4 ✓ |
| Pass or Fail | XP : 4 / 4 ✓ |
| AEIMA's Online Courses | XP : 4 / 4 ✓ |

## 2.4 Bigdata And Testing

## week(7-8):

Due to some issues our training for Bigdata and testing was delayed by a month, so as of now , we have been taught about Hadoop,MapReduce and basics of spark.

Hadoop:
Apache Hadoop is an open source framework for processing and storing big datasets ranging in size from gigabytes to petabytes. Instead of storing and processing data on a single huge computer, Hadoop enables for the clustering of numerous computers to analyse massive datasets in parallel more efficiently.
Hadoop is an open-source system for storing and processing large amounts of data in a distributed setting using basic programming concepts across clusters of machines. It's built to expand from a single server to thousands of devices, each with its own computing and storage capabilities.
On commodity hardware clusters, Apache Hadoop is an open source software framework for storing and analyzing large volumes of data. Hadoop is an Apache top-level project that is created and used by a worldwide community of developers and users. The Apache License 2.0 governs its distribution.

Doug severing Hadoop, his son's plush elephant

Doug Cutting and Mike Cafarella invented Hadoop in 2005. It was originally designed to aid in the deployment of the Nutch search engine project. Doug named the project Elephant after his son's toy elephant while working at Yahoo! at the time. He is currently the Chief Architect at Cloudera. Cutting's child was two years old at the time and had only recently begun to speak. Tont was dubbed "Hadoop" by him.

There are 4 main components in Hadoop:

- HDFS
- YARN
- MapReduce
- Hadoop Common

HDFS(Hadoop Distributed File System ):
Hadoop applications use the Hadoop Distributed File System (HDFS) as their primary data storage system. HDFS provides a distributed file system that allows high-performance access to data across highly scalable Hadoop clusters using a NameNode and DataNode architecture.

Hadoop is an open source distributed processing system for large data applications that controls data processing and storage. HDFS is a critical component of the various Hadoop ecosystem technologies. It provides a trustworthy method for managing massive data pools and supporting related big data analytics applications.

## YARN(Yet Another Resource Negotiator):

Apache Hadoop YARN, also known as Yet Another Resource Negotiator. It is an improvement over MapReduce in Hadoop version 1.0 since it is a powerful and efficient resource manager that supports applications like as HBase, Spark, and Hive. YARN is a layer that is used to separate the resource management layer and the processing component layer.

YARN can run many applications in parallel, increasing efficiency while processing data. YARN is in charge of delivering resources such as storage space,

## MAPREDUCE:

MapReduce is a programming paradigm that may be used to scale to hundreds or thousands of computers in a Hadoop cluster. The processing component, MapReduce, is at the heart of Apache Hadoop. The term "MapReduce" refers to two distinct functions carried out by Hadoop algorithms. The first work is a map task, which converts one set of data into another set of data by separating individual objects into tuples (key/value pairs).

The reduction job takes the output of a map as input and combines the data tuples into a smaller set of tuples. As the term MapReduce implies, the reduction work is always executed after the map job.

## HADOOP COMMON:

Hadoop Common is a set of shared utilities and libraries that help other Hadoop modules. Along with the Hadoop Distributed File System (HDFS), Hadoop YARN, and Hadoop MapReduce, it is a critical component of the Apache Hadoop Framework. Hadoop Common, like all other modules, considers that hardware problems are common and that the Hadoop Framework should manage them automatically in software.
Hadoop Core is another name for Hadoop Common.
The Hadoop Common package is regarded as the framework's The Hadoop Common package also includes source code and documentation, as well as a contribution area with several Hadoop Community projects.

# CHAPTER - 3
# SOFTWARE REQUIREMENT SPECIFICATION (SRS)

• **MS SQL**

Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications—which may run either on the same computer or on another computer across a network (including the Internet). Microsoft markets at least a dozen different editions of Microsoft SQL Server, aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users.
MySQL includes stand-alone clients that allow users to communicate with a MySQL database directly using SQL, but it is more commonly used in conjunction with other tools to develop applications that require relational database capacity. MySQL is a component of the LAMP (Linux, Apache, MySQL, Perl/PHP/Python) web application software stack (among others). Many database-driven online programmes, including Drupal, Joomla, phpBB, and WordPress, use MySQL. Many major websites, including Facebook,[ Flickr, MediaWiki, Twitter, and YouTube, utilise MySQL.

• **Visual Studio Code**

**Visual Studio Code** is a freeware source-code editor made by Microsoft for Windows, Linux and macOS. [9] Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

Visual Studio Code is a source-code editor that supports Java, JavaScript, Go, Node.js, Python, C++, and Fortran. It's based on the Electron framework, which is used to build Node.js Web apps using the Blink layout engine. Visual Studio Code and Azure DevOps both utilise the same editor component (named "Monaco").

Visual Studio Code ships with limited support for the majority of popular programming languages. Basic functionality includes syntax highlighting, bracket matching, code folding, and configurable snippets. IntelliSense for JavaScript, TypeScript, JSON, CSS, and HTML, as well as Node.js debugging support, are also included in Visual Studio Code. Additional language support is available via free extensions on the VS Code Marketplace.

- **Apache Spark:**

Apache Spark is a lightning-fast unified analytics engine for big data and machine learning. It was originally developed at UC Berkeley in 2009.Apache Spark™ is a multi-language engine for executing data engineering, data science, and machine learning on single-node machines or clusters.
The resilient distributed dataset, a read-only multiset of data items spread over a cluster of servers and maintained in a fault-tolerant manner, serves as the architectural underpinning for Apache Spark. Following the Dataframe API, the Dataset API was published as an abstraction on top of the RDD. The RDD was the primary application programming interface in Spark 1.x, however in Spark 2.x, the Dataset API is recommended, even if the RDD API is not deprecated. The RDD technology is still at the heart of the Dataset API.

Spark and its RDDs were created in 2012 in response to restrictions in the MapReduce cluster computing paradigm, which mandates distributed programmes to use a certain linear dataflow structure:MapReduce programs read input data from disk, map a function across the data, reduce the results of the map, and store reduction results on disk. Spark's RDDs function as a working set for distributed programs that offers a (deliberately) restricted form of distributed shared memory

Key Features:

**Batch/streaming data**

Unify the processing of your data in batches and real_time streaming, using your preferred Language: Python, Sql, Scala, Java or R

**SQL Analytics**

Execute fast, distributed ANSI SQL queries for dashboarding and ad-hoc reporting.
Runs faster than most of the warehouses.

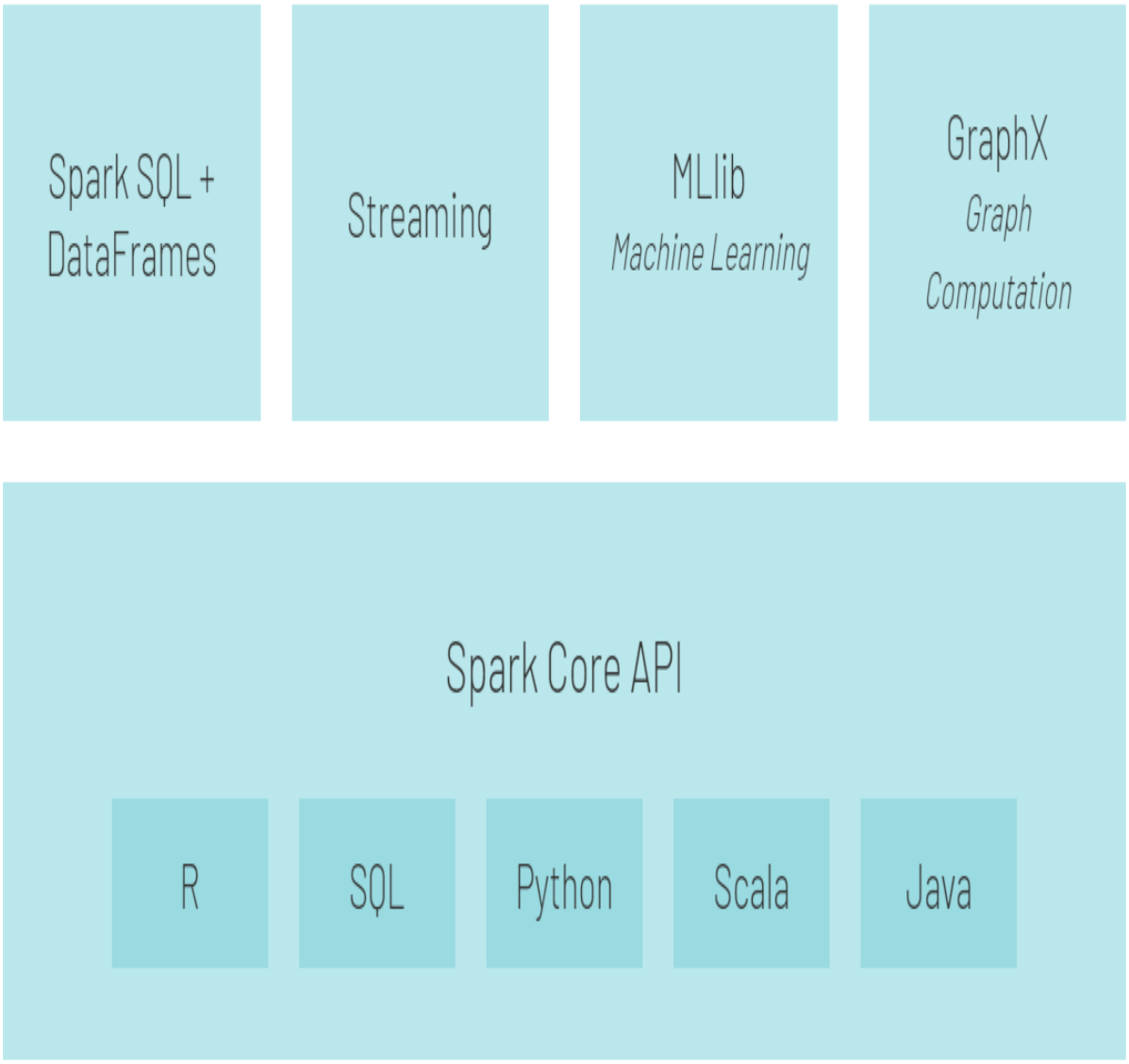
## Data Science Scale:

Perform exploratory Data analysis(EDA) on petabyte-scale data without having to resort to downsampling

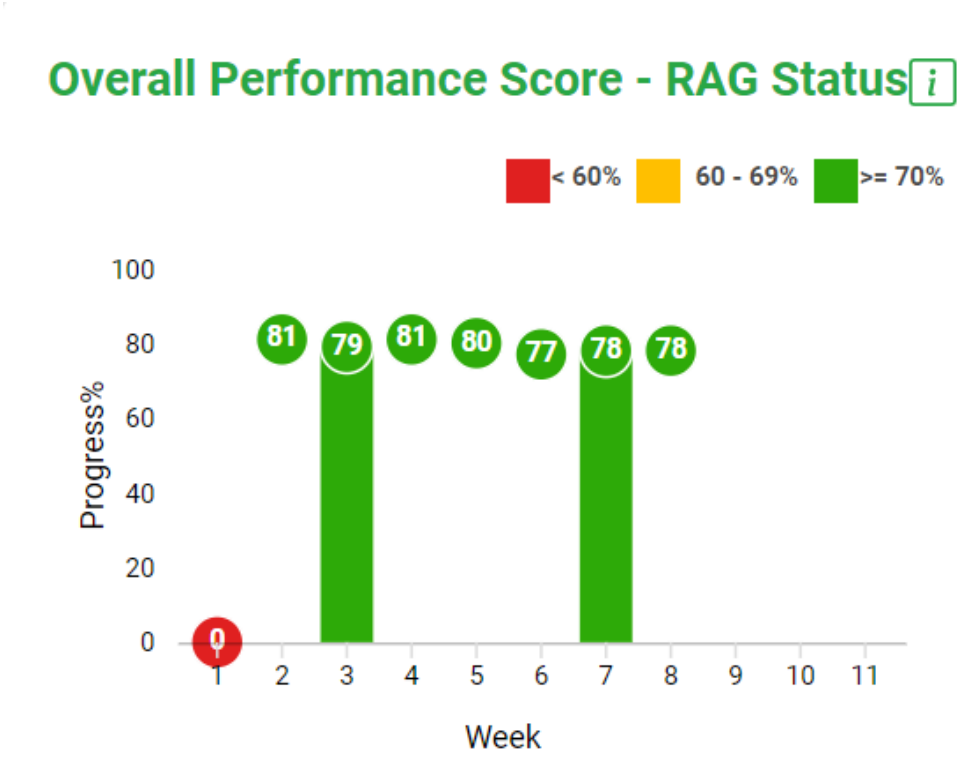
## Machine Learning:

Train ML algorithms on a laptop and use the same code to scale to fault-tolerant cluster of thousands of machines

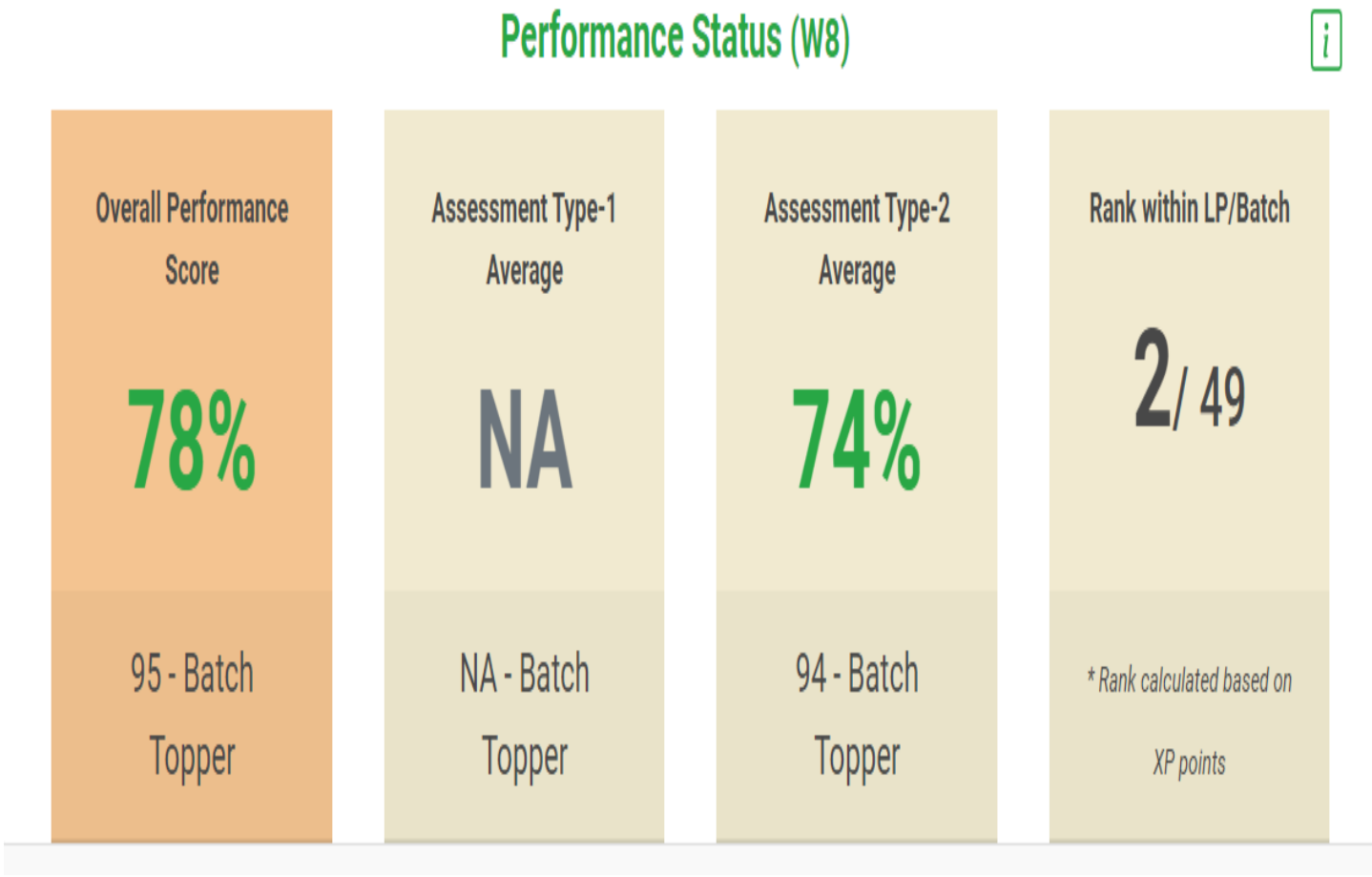




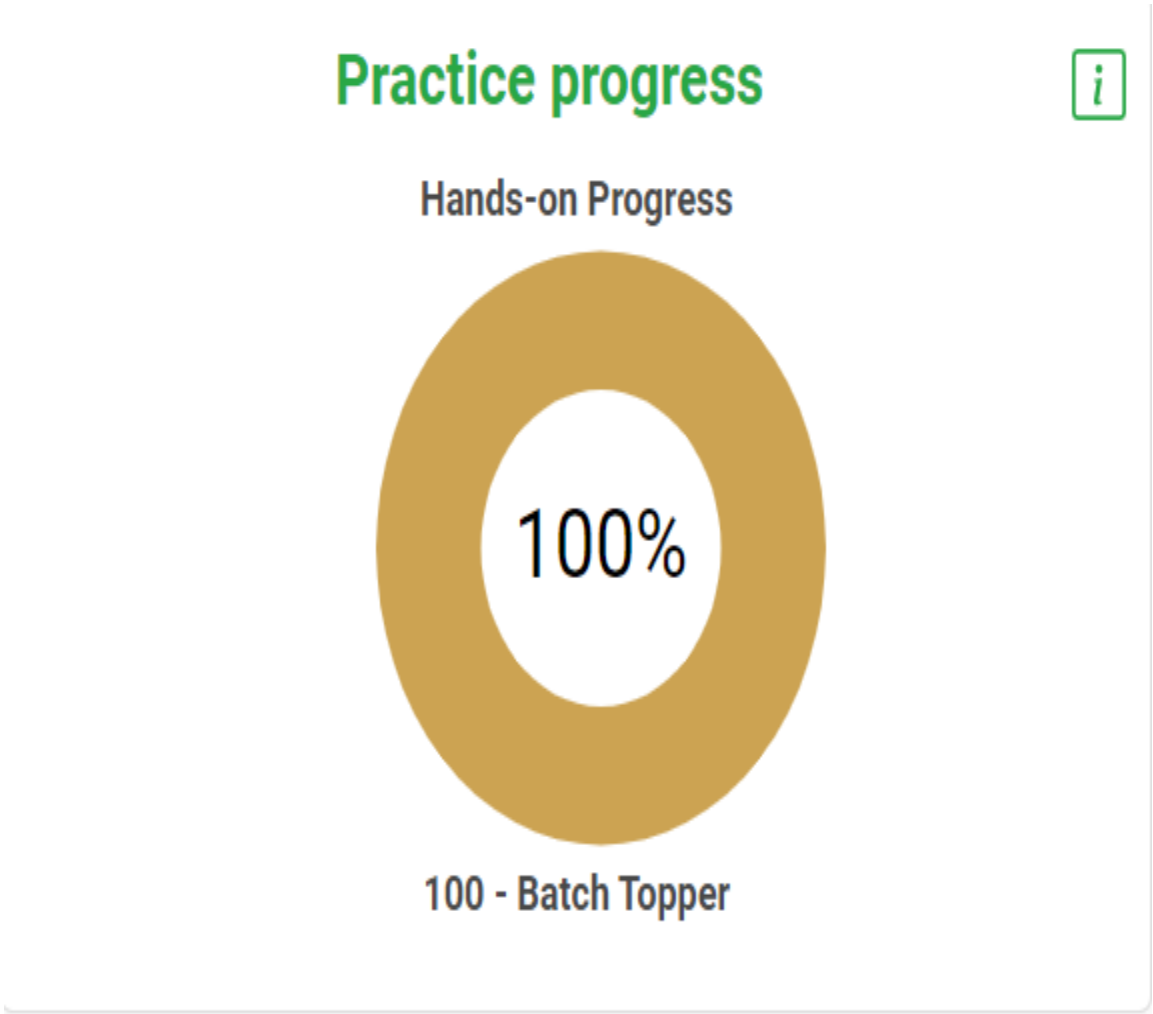
# CHAPTER - 4
# RESULT AND PERFORMANCE ANALYSIS




**Overall Performance Score - RAG Status**




**Performance Status**

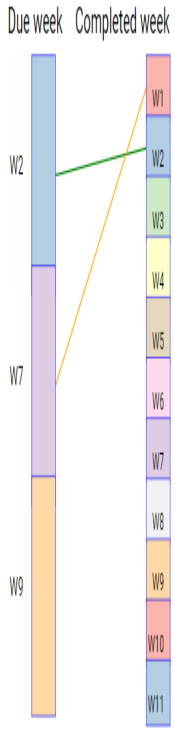


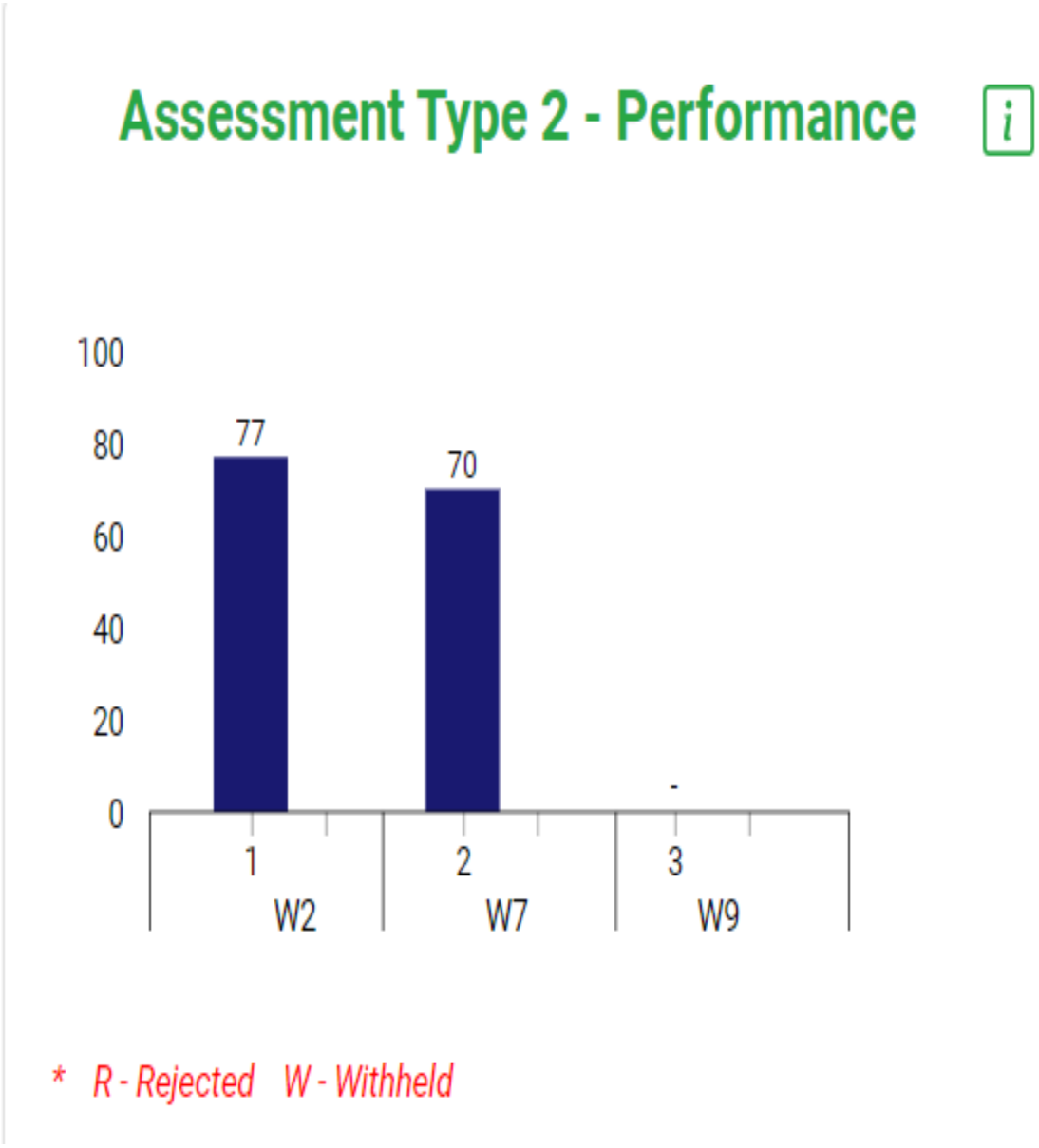

**Hands On Progress/Practice Progress**

## Schedule Variance

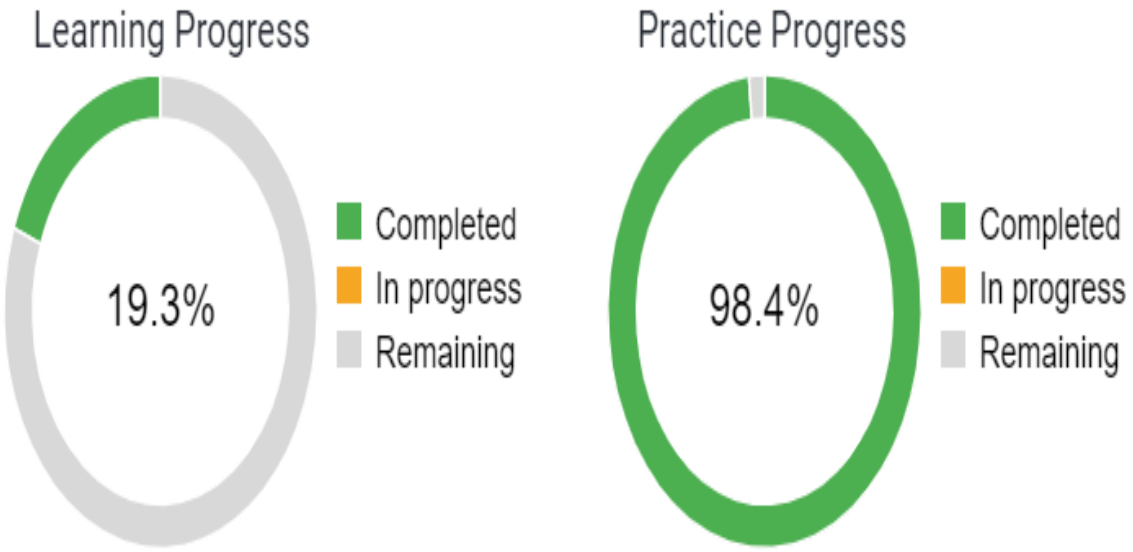
Checkpoint Weeks: W3 ,W7 ,W11

| | | | | CP 1 | | | | CP 2 | | | | CP 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W1 | W2 | W3 | W4 | W5 | W6 | W7 | W8 | W9 | W10 | W11 |
| Hands-on | Due | 22 | 6 | 18 | | 1 | 14 | | | 1 | | |
| | Actual | 22 | 6 | 18 | | 1 | 14 | | | 1 | | |
| Assessment Type 1 | Due | | | | | | | | | | | |
| | Actual | | | | | | | | | | | |
| Assessment Type 2 | Due | | 1 | | | | | 1 | | 1 | | |
| | Actual | | 1 | | | | | 1 | | | | |
| Project Score | | | | | | | | | | | | |
| BU Rating | | | | | | | | | | | | |






**Assessment Type 2 - Performance**




**Learning Progress/Practice Progress**

## XP points summary

| Type | XP |
|---|---|
| Assess Type 2 - GenC_AIA_Python Assessment [101-Basics] | 50.00 |
| Assess Type 2 - GENC - AVM ANSI SQL - SKILL BASED ASSESSMENT [101-BASICS] | 100.00 |
| Assign | 50.00 |
| Coding Activity | 250.00 |
| Total | 450 |

**XP Points Logs**

**Progress 95.50%**

**Following are the skills covered as part of this learning path**

1. Database Design
2. Data Warehouse Basics
3. ETL Concepts
4. Unix and Shell Scripting
5. Data Warehouse Testing
6. Informatica Powercenter
7. Python
8. BigData and Hadoop
9. BigData - Hbase
10. Scala
11. Spark
12. Spark Streaming
13. SparkSQL
14. Spark ETL patterns
15. Testing

# Progress Report

# LEARNING ACTIVITY PROGRESS DETAIL

## GENC - AVM ANSI SQL - SKILL BASED ASSESSMENT [101-BASICS]

This Assessment ensures Skill level in ANSI SQL and applicable for AVM AIM trainees

**GENERAL**

**Content type:**
External Content

**Total score:**
77%

**Completion date:**
Thursday, March 3, 2022 8:38:19 PM IST

**Status:**
Completed

**First launch date:**
Thursday, March 3, 2022 8:38:19 PM IST

**Grade:**
grade 2

**Elapsed time:**
-

**LESSON**

**Progress Detail(SQL)**

# LEARNING ACTIVITY PROGRESS DETAIL

## GENC - AIA - PYTHON - KNOWLEDGE BASED ASSESSMENT [101-BASICS]

### GENERAL

**Content type:**
External Content

**Total score:**
70%

**Completion date:**
Wednesday, May 4, 2022 7:53:21 PM IST

**Status:**
Completed

**First launch date:**
Wednesday, May 4, 2022 7:53:21 PM IST

**Grade:**
grade 2

**Elapsed time:**
-

### LESSON

**Progress Detail Python**

# LEARNING ACTIVITY PROGRESS DETAIL

## INFORMATICA GENC SKILL - KNOWLEDGE BASED ASSESSMENT [101-BASICS]

This basic-level assessment is designed for Informatica developers and will evaluate their proficiency in Informatica at the associate level.

### GENERAL

**Content type:**
External Content

**Total score:**
80%

**Completion date:**
Wednesday, May 11, 2022 10:44:55 AM IST

**Status:**
Completed

**First launch date:**
Wednesday, May 11, 2022 10:44:55 AM IST

**Grade:**
grade 2

**Elapsed time:**
-

### LESSON

**Progress Details(Informatica)**

# CHAPTER -5
# CONCLUSION

## 5.1 Conclusion

I'm still completing my internship with the cognizant, and I've learnt so much from this internship, which has also helped me shape my personality and provide me with understanding of these technologies.

My ultimate internship project with cognizant internship is still ongoing, and I will do my best to complete the internship assignment.

I would want to express my gratitude in advance to the cognizant coaches, SME, mentor, and trainer who helped me through the entire journey of my internship in cognizant and answered all of my questions. The coaches, subject matter experts (SMEs), mentors, and trainers were all kind people who supported me when I made mistakes and changed me during my internship.

My mentor, in particular, put in additional effort during the internship and forwarded all of our questions to higher-ups in the organisation, whether they were about retaking the assessment, technological issues encountered during the assessment, or granting extra time to finish the task. I would strongly advise my juniors to prepare hard for an offer from cognizant and to obtain an internship chance from cognizant because cognizant is a top notch firm in the information technology area.
I'd like to thank my TNP officer, Mr. Pankaj Kumar sir, for his help and hard effort throughout the entire placement process, since I understand how difficult it is to handle a placement drive.

## REFERENCES


- Cognizant Handbook
- Udemy
- Internship Experience
- Cognizant Internship Curriculum