

About IntelliPaat

IntelliPaat is a fast-growing professional training provider that is offering training in over 150 most sought-after tools and technologies. We have a learner base of 600,000 in over 32 countries and growing. For job assistance and placement we have direct tie-ups with 80+ MNCs.

Key Features of IntelliPaat Training:

 Instructor Led Training 18 Hrs of highly interactive instructor led training	 Self-Paced Training 18 Hrs of Self-Paced sessions with Lifetime access	 Exercise and project work 28 Hrs of real-time projects after every module	 Lifetime Access Lifetime access and free upgrade to latest version
 Support Lifetime 24*7 technical support and query resolution	 Get Certified Get global industry recognized certifications	 Job Assistance Job assistance through 80+ corporate tie-ups	 Flexi Scheduling Attend multiple batches for lifetime & stay updated.

About the Course

This Oracle DBA Online Training Course intends to provide you an in-depth understanding of the Oracle Database Server Administration. You will learn about the Oracle DBA Architecture, various concepts, database structures, memory and process architecture, security, schema objects, data backup, and recovery.

 Instructor Led Duration – 18 Hrs Weekend Batch –3 Hrs/Session	 Self Paced Duration – 18 Hrs
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Why take this Course?

The Oracle DBA is associated with the relational database management system. The role of the Database Administrator is crucial to managing the huge volumes of data in large enterprises. Hence Oracle DBA professionals are in huge demand. This Training Course will provide you with the necessary skills to take up jobs as Database Administrators in top companies for big salaries.

- ❖ Oracle is the market leader in the relational database with a 48.35% market share – Gartner
- ❖ An Oracle Database Administrator can earn \$94,000 in the United States – indeed.com
- ❖ Being an Oracle Certified Professional (OCP) is crucial to work as an Oracle DBA – Oracle

Course Content

Module /Topic
Database Introduction <ul style="list-style-type: none">❖ What is the Oracle database?❖ How does it function?❖ Pre-requisites, Oracle database, multiple non-CDB's shares nothing❖ Oracle Database 12c installation, multi-tenant architecture❖ Non-CDB oracle system data mixed with user data❖ Multitenant container database, pluggable database
Oracle Database 12c Architecture <ul style="list-style-type: none">❖ The Architecture of Oracle server❖ The key components – Oracle Instance and Oracle Database❖ The various file types – data files, control files, redo log files, benefits of CDB❖ Easier management of the database, support for Oracle database resource manager, pluggable database (PDB), database instance❖ Contents of CDB and pluggable DB, control files and redo log files❖ Shared Oracle supplied metadata, root container, data dictionary❖ Creation of PDB's, seed PDB, limit PDB
Oracle Storage Structure <ul style="list-style-type: none">❖ The basics of Oracle Storage structures❖ Logical storage units like tablespaces, data blocks, extents, and segments❖ Database Schemas, Schema Objects❖ Operating System blocks, table statement and way to check “create table”❖ The instance, the CDB, containers, root containers, PDB

<ul style="list-style-type: none"> ❖ Local user and common user, local privileges and common privileges ❖ Steps to create a container database ❖ Creating a container database using SQLplus ❖ Database configuration assistance 	
<p>Memory and Process Architecture</p> <ul style="list-style-type: none"> ❖ The Oracle Instance consists of background processes and memory structures ❖ Learn about the Oracle process and memory architecture, shared pool, redo log buffer, and buffer cache ❖ Different methods of creating PDB ❖ Steps involved in PDB, using PDB\$SEED, without FILE_NAME_CONVERT, synchronization ❖ Plug a non-CDB to CDB, plug a non-CDB into CDB using DBMS_PDB, clone PDBS, plug and un-plug, plug unplugged CDB in to CDB 	
<p>Alert and Trace Files</p> <ul style="list-style-type: none"> ❖ The Oracle background process errors can be monitored using the Trace Files and Alert Logs ❖ Learn how this can be deployed for Oracle Administration and support 	
<p>Database Startup and User Requests</p> <ul style="list-style-type: none"> ❖ The methodology of starting a database instance, initializing parameter files, preparing for startup, serving user requests ❖ Understanding of the Server process and user process ❖ Administrative activities on PDB, new views associated with PDBS ❖ Determining which PDB you are in, four functions, opening, closing, and altering the open mode of PDBS ❖ Setting the default and temporary tables places for a PDB ❖ Using the alter system command from within a PDB ❖ Instance parameter change impact 	
<p>Managing Data with ILM</p> <ul style="list-style-type: none"> ❖ What is automatic data optimization, heat map, and ADO? ❖ DBA Heat map Segment view, monitoring statistics ❖ Creating Compression Policies, Creating storage tiering policy, Preparing evolution and execution 	<p>Hands-on Lab</p> <ul style="list-style-type: none"> ❖ Automatic Data Optimization, Reduction Policies, Alter Policy

Database Security

- ❖ Learn about the powerful Oracle database security features
- ❖ Data privacy, regulatory compliance, “create user” process, altering and dropping users
- ❖ Generating profiles and limiting resources, auditing
- ❖ Activity monitoring and blocking

Database Schema Objects

- ❖ Understanding of Database Schema objects
- ❖ The various types available like views, tables, clusters, indexes, sequence, database links, packages, and procedures
- ❖ Learning how data is stored in database tables
- ❖ Creating temporary tables and external tables

Database Resource Manager

- ❖ Resource manager. Resource manager and pluggable database
- ❖ Managing resource between PDBs, CDB resource plan basics: share
- ❖ CDB resource plan basics: Limit
- ❖ Creating a CDB resource plan
- ❖ Creating a CDB resource plan: SQL example
- ❖ Enabling a CDB resource plan, managing PDB resource plan

Deep Dive into Schema Objects

- ❖ Mastering the database Schema objects
- ❖ Learning Materialized View
- ❖ Deploying user-generated schema object for generating a sequence
- ❖ The balanced search tree index structure for placing and locating files
- ❖ Learn about data concurrency and data consistency in multi-user databases
- ❖ The concepts of Locking and Deadlocks

Oracle Network Environment

- ❖ Study the client/server Network Environment, configuring the network
- ❖ Connecting to the database
- ❖ The Oracle Network Environment and database link
- ❖ Starting up an instance, SHUTDOWN, NOMOUNT, MOUNT, OPEN, PDB, OPEN, clone PDBS

Oracle Backup and Recovery

- ❖ Understand how Oracle database ecosystem backup and recovery is deployed
- ❖ The database testing, database standby, Media recovery options, backup in offline mode
- ❖ CDB backup and recover, archiving challenges and solutions, in data base archiving
- ❖ Security and performance: audit architecture
- ❖ Consolidation: a unique audit trail, extended audit information, data pump audit policy
- ❖ New administrative privileges
- ❖ New administrative privileges: SYSBACKUP
- ❖ New administrative privileges: SYSDG
- ❖ New administrative privileges: SYSKM

Oracle Recovery Manger

- ❖ Learn the significance of Oracle Recovery Manager, how it deploys performance
- ❖ Management and restoration of entire databases
- ❖ Learn about SQL Loader, Oracle Data Pump for import and export and support for External Table

Data Dictionary and Dynamic Performance Tables

- ❖ The Oracle Data Dictionary contains information related to database privileges
- ❖ Objects, users, and roles
- ❖ Learn Dynamic Performance Table for identifying instance-level problems
- ❖ Get complete knowledge to work with Oracle DBA, connection access DBA
- ❖ Data dictionary views, after CDB creation, alert log file
- ❖ Provisioning new pluggable databases NOARCHIVELOG mode, media failure, flashback CDB, data dictionary views

Database Tuning

- ❖ Introduction to database tuning, ensuring higher throughput
- ❖ Lowering response time of time-critical applications, optimizing the storage space
- ❖ SQL scripts, deploying Index Selectivity
- ❖ Index Statistics and Table Statistics for tuning the database
- ❖ Understanding Oracle Chained Rows and Locks

Database Tuning Continued

- ❖ Deep diving into Oracle Database Tuning, shared pool tuning
- ❖ Improving performance using Data Dictionary, tuning of Data Dictionary
- ❖ Deploying PL/SQL code, code reuse, database buffer

Project Work

Project 1: Tuning of the database

Industry: General

Problem Statement: how to optimize the Oracle database and perform database tuning on it.

Topics – This project is involved with working on the Oracle Database for deploying the database performance tuning which includes optimizing and homogenizing the database performance. It is associated with query tuning but also includes DBMS selection and configuration of the database environment. There are multiple tasks that you will perform giving you a hands-on experience –

Highlight:

- ❖ Space usage monitoring
- ❖ SQL scripts monitoring
- ❖ Database & SQL tuning
- ❖ Table & Index Statistics
- ❖ Chained Rows & Locks

Project 2: Building an airline ticketing website

Industry: E-commerce

Problem Statement: How to build a website for online flight ticket booking powered by Oracle database.

Description: This project will extensively use the Oracle database administration tools and technologies for building the database system for such a website. You will access the data using the Java Database Connectivity (JDBC). You will learn about the security & monitoring features of Oracle database. You will aggregate data from multiple airline sites for the best prices, take request for flight booking from users using multiple browsers and devices & provide an output as per the user query.

Highlights:

- ❖ Oracle storage structure & architecture
- ❖ Oracle Server processes & user processes
- ❖ Initializing database instance & handling user requests.

Project 3: HR management powered by Oracle database

Industry: Human Resources

Problem Statement: A large multinational company wants to have a human resource database to simplify the process of employee management.

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Description: This Oracle database administration project will help you manage an HR database of a large multinational powered by Oracle database system. You will ensure that every manager has data pertaining to his team readily accessible for proper management. The HR database will be connected to the finance, operations, and training departments' database for streamlining the employee management process.

Highlights:

- ❖ Table creation & Oracle storage structure
- ❖ Database security & regulatory compliance
- ❖ Creating Oracle database schema objects.

Intellipaate Job Assistance Program

Intellipaate is offering comprehensive job assistance to all the learners who have successfully completed the training. A learner will be considered to have successfully completed the training if he/she finishes all the exercises, case studies, projects and gets a minimum of 60% marks in the Intellipaate qualifying exam.

Intellipaate has exclusive tie-ups with over 80 MNCs for placement. All the resumes of eligible candidates will be forwarded to the Intellipaate job assistance partners. Once there is a relevant opening in any of the companies, you will get a call directly for the job interview from that particular company.

Frequently Asked Questions:

Q 1. What is the criterion for availing the Intellipaate job assistance program?

Ans. All Intellipaate learners who have successfully completed the training post April 2017 are directly eligible for the Intellipaate job assistance program.

Q 2. Which are the companies that I can get placed in?

Ans. We have exclusive tie-ups with MNCs like **Ericsson, Cisco, Cognizant, Sony, Mu Sigma, Saint-Gobain, Standard Chartered, TCS, Genpact, Hexaware**, and more. So you have the opportunity to get placed in these top global companies.

Q 3. Does Intellipaate help learners to crack the job interviews?

Ans. Intellipaate has an exclusive section which includes the top interview questions asked in top MNCs for most of the technologies and tools for which we provide training. Other than that our support and technical team can also help you in this regard.

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Q 4. Do I need to have prior industry experience for getting an interview call?

Ans. There is no need to have any prior industry experience for getting an interview call. In fact, the successful completion of the IntelliPaat certification training is equivalent to six months of industry experience. This is definitely an added advantage when you are attending an interview.

Q 5. What is the job location that I will get?

Ans. IntelliPaat will try to get you a job in your same location provided such a vacancy exists in that location.

Q 6. Which is the domain that I will get placed in?

Ans. Depending on the IntelliPaat certification training you have successfully completed, you will be placed in the same domain.

Q 7. Is there any fee for the IntelliPaat placement assistance?

Ans. IntelliPaat does not charge any fees as part of the placement assistance program.

Q 8. If I don't get a job in the first attempt, can I get another chance?

Ans. Definitely, yes. Your resume will be in our database and we will circulate it to our MNC partners until you get a job. So there is no upper limit to the number of job interviews you can attend.

Q 9. Does IntelliPaat guarantee a job through its job assistance program?

Ans. IntelliPaat does not guarantee any job through the job assistance program. However, we will definitely offer you full assistance by circulating your resume among our affiliate partners.

Q 10. What is the salary that I will be getting once I get the job?

Ans. Your salary will be directly commensurate with your abilities and the prevailing industry standards.

What makes us who we are?



"Very informative course, very well-produced content. Enjoyable and well segmented."

-Anjali Srivastava



"Thanks for providing this awesome course. Clear explanations, good examples, good coverage..."

-David Juvan