



IMPACTFUL  
Powered by LRMG

ORACLE UNIVERSITY • UPSKILLING PATH

---

# Oracle Database Learning Roadmap

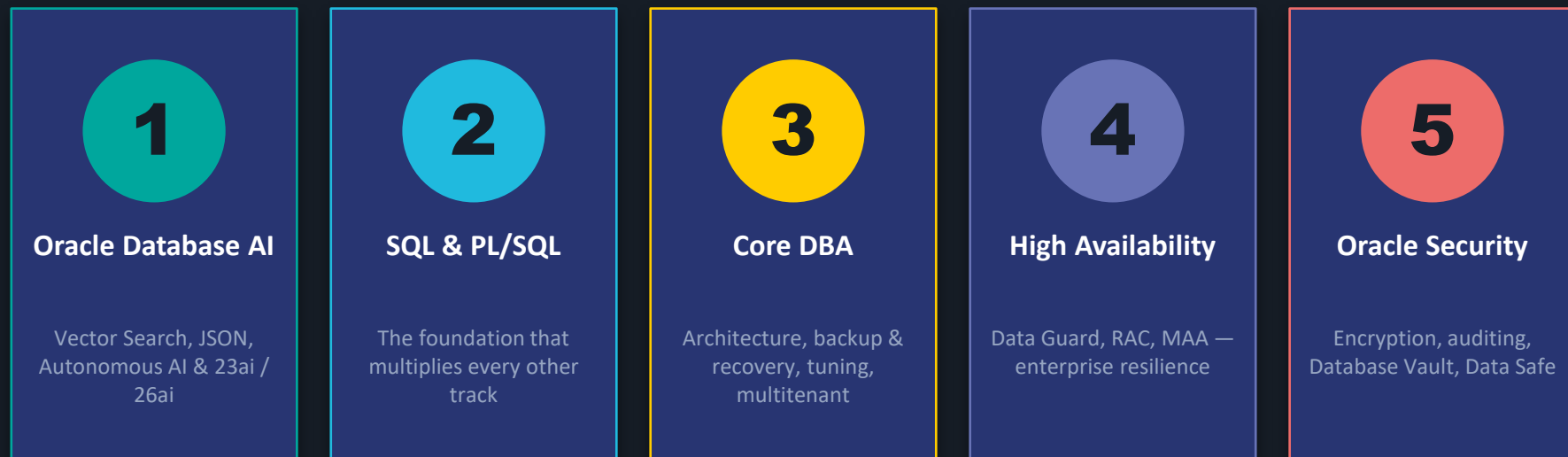
Five tracks to production-grade mastery — AI, SQL & PL/SQL, DBA, High Availability, and Security.

16-WEEK STRUCTURED PLAN

ORACLE

# The roadmap at a glance

Build depth across the full Oracle Database stack from SQL foundations to next-generation AI, resilient architecture, and enterprise security.



Sequenced over 16 weeks → foundations first, AI and certification prep last.

# 1

## Oracle Database AI (23ai & 26ai)

**GOAL** Become proficient in AI Vector Search, JSON, Autonomous AI features, and next-gen DB (26ai).

### COURSES

- Oracle Database 23ai: New Features
- Oracle AI Vector Search
- Autonomous Database AI
- Oracle Database 26ai (early access)

### KEY TOPICS

- Vector datatypes & indexes
- AI embeddings in the database
- JSON Relational Duality
- Graph + AI integration
- Autonomous AI workload optimization

### HANDS-ON

- Build a vector search app
- Store embeddings in the DB
- Query similarity (cosine distance)
- Use Autonomous DB AI tools

### CERTIFICATION

Oracle Database AI Specialist (emerging) • Autonomous Database Cloud Professional

# 2

## SQL Developer & PL/SQL Developer

**GOAL** Build the strong foundation that underpins every other track.

### COURSES

- Oracle Database SQL Workshop
- Oracle Database SQL Certified Associate
- PL/SQL Programming
- Advanced PL/SQL

### KEY TOPICS

- SQL joins, analytics, window functions
- PL/SQL packages, procedures, triggers
- Performance tuning in SQL
- JSON & SQL integration

### HANDS-ON

- Write complex analytics queries
- Build stored procedures
- Error handling & bulk processing

### CERTIFICATION

Oracle Database SQL Certified Associate • PL/SQL Developer Certified Professional

# 3

## Database Administration (Core DBA)

**GOAL** Become a production-grade Oracle DBA.

### COURSES

- Oracle Database Administration Workshop
- Oracle Database Backup & Recovery
- Oracle Multitenant Architecture

### KEY TOPICS

- Instance architecture
- PDB / CDB management
- RMAN backups
- Performance tuning
- Data dictionary

### HANDS-ON

- Install a DB (on OCI or local)
- Create & manage PDBs
- Backup & restore scenarios
- Monitor AWR / ASH

### CERTIFICATION

Oracle Database Administrator Professional (19c / 23ai track)

# 4

## High Availability (HA)

**GOAL** Design enterprise-grade, resilient systems.

### COURSES

- Oracle Data Guard Administration
- Oracle RAC Administration
- Oracle Maximum Availability Architecture (MAA)

### KEY TOPICS

- Data Guard (physical & logical standby)
- Active Data Guard
- RAC architecture
- Failover & switchover
- Backup strategies with HA

### HANDS-ON

- Configure Data Guard
- Perform failover tests
- Simulate outages
- RAC cluster basics

### CERTIFICATION

Oracle Database High Availability Certified Specialist

# 5

# Oracle Security

**GOAL** Secure enterprise Oracle environments end to end.

## COURSES

- Oracle Database Security
- Data Safe
- Oracle Advanced Security
- Database Vault

## KEY TOPICS

- TDE (Transparent Data Encryption)
- Data redaction & masking
- Privilege management
- Auditing & compliance
- Identity integration

## HANDS-ON

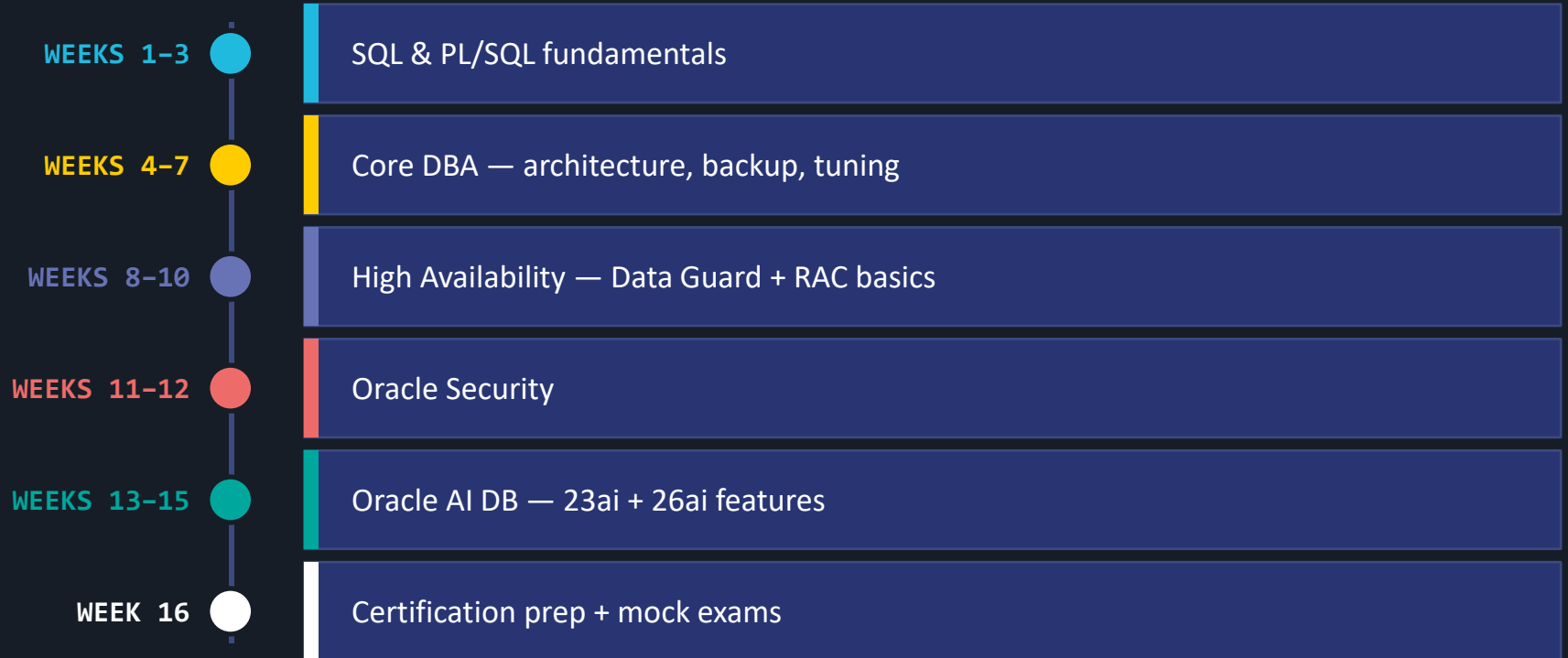
- Enable encryption
- Configure auditing
- Apply least-privilege model
- Mask sensitive data

## CERTIFICATION

Oracle Database Security Certified Specialist

## SUGGESTED SCHEDULE

# A 16-week study plan





IMPACTFUL  
Powered by LRMG

YOUR PATH STARTS NOW

**Start with SQL, build  
toward AI, HA &  
Security, and finish with  
certification prep.**

Contact us for more information

ORACLE