



VERSION

2

CRASH COURSE

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**SR. CODE**

EAPL/CRASH/CRTC18

**COURSE CODE**

EACOF

**SUB CATEGORY**

DATABASE MANAGEMENT

  
TOTAL DURATION  
**45**  
HOURS

  
THEORY TAKEN  
**10**  
HOURS

  
PRACTICAL TAKEN  
**35**  
HOURS



## COURSE DESCRIPTION



Oracle Fundamentals Course is a series of courses that teach you the fundamentals of Oracle Database technology. The courses cover a wide range of topics, including:

- Relational database concepts
- SQL (Structured Query Language)
- PL/SQL (Procedural Language for SQL)
- Oracle Database administration
- Oracle Database development

## COURSE GOALS



- Introduce students to the Oracle Database platform
- Provide students with the skills necessary to use the Oracle Database to store, manage, and analyze data
- Prepare students for further study or employment in the field of database administration or development
- Understand the fundamentals of relational database theory
- Write effective SQL queries
- Develop PL/SQL procedures and functions



## FUTURE SCOPE



- Oracle Database never ends and never dies. There are many job options available such as Developer, DBA, Consultant, Architect, Designer, Manufacturing and Support.
- You could explore the development side or adjacent data technologies like NoSQL and Big Data. You don't really have to be an Oracle DBA all your life if that's what you want.



# 01

## CHAPTER

### 1. ORACLE BASICS

- a. Introduction to Oracle Oracle Features
- b. Oracle DataBase Architecture

  
**30**  
MINS

# 02

## CHAPTER

### 2. SQL

- a. Types of SQL statements (DDL, DML, DCL)
- b. SQL Features
- c. SQL Data types

  
**01**  
HRS

  
**02**  
HRS

# 03

## CHAPTER

### 3. ORACLE TABLE OPERATIONS

- a. Oracle Demo tables
- b. Table Creation
- c. Insert
- d. Select with various operations
- e. Updating Table data
- f. Deleting Table data
- g. Dropping table
- h. Truncating tables
- i. Rollback, commit, save point

  
**03**  
HRS

  
**05**  
HRS



# 04

## CHAPTER

### 4. CONSTRAINT

- a. Domain Integrity Constraints Unique
- b. Not Null
- c. Primary Key
- d. Check Referential Integrity Constrains
- e. Foreign Key
- f. Adding & Removing Constraints to existing table



1.5  
HRS



02  
HRS

# 05

## CHAPTER

### 5. SQL PREDEFINED FUNCTIONS

- a. Number Function
- b. Scalar Function
- c. Character Function
- d. Date Function



01  
HRS



01  
HRS

# 06

## CHAPTER

### 6. SUB QUERIES

- a. Nested Sub Queries
- b. Correlated Sub Queries



2.5  
HRS



04  
HRS



# 07

CHAPTER

## 7. TABLE JOINS

- a. Equi join
- b. Outer join
- c. Cartesian join
- d. Self-join
- e. Set operations Union
- f. Intersect
- g. Union all
- h. Minus



**2.5**  
HRS



**05**  
HRS

# 08

CHAPTER

## 8. GROUP BY OPERATION

- a. Select with group by
- b. Aggregate functions using group by



**01**  
HRS



**02**  
HRS

# 09

CHAPTER

## 9. VIEWS

- a. View definition, Advantages
- b. Creating views various operations



**01**  
HRS



**02**  
HRS



# 10

CHAPTER

## 10. SEQUENCES

- a. Creating, retrieving data
- b. Modifying, dropping sequences



01  
HRS



02  
HRS

# 11

CHAPTER

## 11. INDEXING

- a. What is index, advantages
- b. Types of indexes
- c. Creating index
- d. Retrieving data using index
- e. Dropping sequence



01  
HRS



02  
HRS

# 12

CHAPTER

## 12. SYNONYM

- a. What is Synonym?
- b. Create Synonym?
- c. Advantages of Synonym?



01  
HRS



01  
HRS



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