

# STRUCTURED QUERY LANGUAGE COURSE BRIEFING

**EDITORS:**

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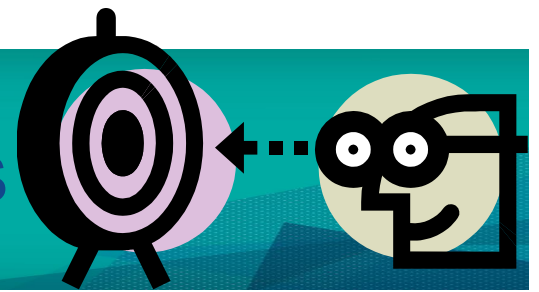
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# What are you going to discover...??

- Understanding the basic concepts of relational databases ensure refined code by developers.
- This course helps the participants to write sub-queries, combine multiple queries into a single query using SET operators and report aggregated data using group functions.
- Controlling privileges at the object and system level are also dealt with in detail.
- This course also covers statement for query and manipulate data within the database

# Course Outcomes



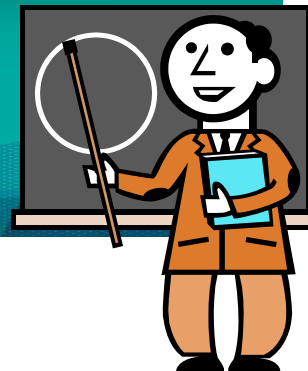
- Demonstrate the concepts and principles of Structured Query Language (SQL)
- Construct Structured Query Language (SQL) for data definition, manipulation and control
- Solve data management issues using SQL

# COURSE CONTENTS

SQL statements that enable to:

- retrieve row and column data from tables
- Create reports FROM TABLES IN ORGANISED FORMAT
- generate and retrieve customized data
- WRITE complex queries USING multiple tables
- USE data manipulation language (DML) FOR DATA UPDATES
- USE data definition language (DDL) to manage schema objects

# Lecture Materials



1. Oracle Database 11g SQL Fundamentals I Vol 1
2. Oracle Database 11g SQL Fundamentals I Vol 2
3. Oracle Database 11g SQL Fundamentals II
4. [www.oracle.com](http://www.oracle.com)



## Oracle Database SQL Expert



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Print this Exam

Exam Number: **1Z0-047**

Associated Certifications: **Oracle Database SQL Certified Expert**

Exam Product Version: **SQL and PL/SQL**

Exam Price: **MYR 608** [More on exam pricing](#)

Duration: **90 minutes**

Number of Questions: **60**

Passing Score: **66%** [View passing score policy](#)

Validated Against: **This exam has been validated against Oracle Database 10g, Oracle Database 11g, Oracle Database 11g Release 2, and Oracle Database 12c Release 1.**

Exam Format: **Multiple Choice**

### ► Registration:

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Exam Preparation

Exam Topics

**Recommended Training**

## ▲ Sample Questions

View answers below

Sample questions are provided solely to familiarize candidates with the multiple-choice format and writing style of questions that will be found on the exam. Sample questions may not cover the full spectrum of difficulty that is covered by the exam questions. Success on the sample questions does not predict success on the exam.

1. View the Exhibit and examine the structure of the EMP and SALGRADE tables. You want to display the names of all employees whose salaries belong to GRADE 5. Which SQL statements give the required output? (Choose all that apply)

- A. 

```
SELECT ename
FROM emp JOIN salgrade
USING (sal BETWEEN losal AND hisal) AND grade = 5;
```
- B. 

```
SELECT ename
FROM emp e JOIN salgrade s
ON (e.sal BETWEEN s.losal AND s.hisal AND s.grade = 5);
```
- C. 

```
SELECT ename
FROM emp e JOIN salgrade s
ON (e.sal BETWEEN s.losal AND s.hisal) AND s.grade = 5;
```
- D. 

```
SELECT ename
FROM emp e JOIN salgrade s
ON (e.sal BETWEEN s.losal AND s.hisal) WHERE s.grade=5;
```
- E. 

```
SELECT ename
FROM emp e JOIN salgrade s
WHERE e.sal BETWEEN s.losal AND s.hisal AND s.grade = 5;
```

### 1a "Exhibit"

#### EMP

Name	Null?	Type
EMPNO	NOT NULL	NUMBER(4)
ENAME		VARCHAR2(10)
JOB		VARCHAR2(9)
HIREDATE		DATE
SAL		NUMBER(7,2)
DEPTNO		NUMBER(2)

#### SALGRADE

Name	Null?	Type
GRADE		NUMBER
LOSAL		NUMBER
HISAL		NUMBER

2. View the Exhibit and examine the structure of the DEPARTMENTS and LOCATIONS tables. You want to display all the cities and the corresponding departments in them, if any. Which query would give you the required output?

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## Database Administrator

(Kuala Lumpur)



### Responsibilities:

- As part of the Strategic Outsourcing Team of IBM, specifically the Database Support Group, will work on a variety of database systems within a team environment to provide the necessary support to operational applications.
- Support platforms such as AS/400, AIX, HP-UX, Microsoft.
- Administer databases on open systems (UDB DB2, Oracle, MS SQL, MySQL, Sybase) with preference on Oracle.


### Requirements:

- Candidates must possess at least a Bachelor's Degree, Post Graduate Diploma or Professional Degree in Computer Science/Information Technology or equivalent.
- Required skills: UDB DB2, Oracle, MS SQL.
- Preferred skills: Experience in RDBMS, Unix system admin, Windows server.
- Working knowledge of DB2 UDB, Oracle, MSSQL, Sybase on Unix/WinTel platforms.
- Extensive experience on all aspects of RDBMS including: installation, physical database design, backup/recovery, performance tuning, security, security patch application.
- Unix system administration or Windows server experience will be an advantage.
- Good analytical and problem resolution skills.
- Able to work non-standard hours when needed.
- Familiar with SLA, change management and problem management governance.



## Oracle DBA jobs in Malaysia

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### Locations

- Malaysia
- Kuala Lumpur
- Selangor

### Contract type

- Any
- Part-time
- Full-time
- Permanent
- Contract
- Temporary
- Training
- Voluntary

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#### Oracle DBA

Kuala Lumpur

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#### Oracle DBA ( 1 year Employment )

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, build, configure and update Oracle server databases Backup and restore databases as appropriate. Tune and resolve database performance.... Minimum 5 years of experience in database administration 3. Strong experience in Oracle (10g and above) Database Administration 4...

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#### Oracle DBA & Developer Oracle DBA & Developer

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to join our dynamic team. For more vacancies, have a look at <http://trovicor.com/en/careers/> Oracle DBA & Developer is involved in both product development... process and designing scalable database architecture with focus on Oracle

# Assessments



Test 1	20%
Hands-on-Test 1	20%
Hands-on-Test 2	20%
Final Exam	40%
Total	100%

# References

- 1 Oracle Database 11g SQL Fundamentals I, Oracle Academy, 2011
- 2 Oracle Database 11g SQL Fundamentals II, Oracle Academy, 2011
- 3 Abdullah Embong, et al. Database Systems. Penerbitan UMP, 2010.
- 4 Carlos Coronel, Steven Morris & Peter Rob (2013) Database Systems: Design, Implementation, and Management: 10th Edition. Course Technology
- 5 Connolly & Carolyn Begg (2015) Database Systems: A Practical Approach to Design, Implementation and Management: 6th Edition. Thomas Addison Wesley

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