

# Oracle

## Exam 1z0-051

### Oracle Database: SQL Fundamentals I

Version: 6.13

[ Total Questions: 292 ]

**Topic 1, Volume A****Question No : 1 - (Topic 1)**

Evaluate the SQL statement:

```
TRUNCATE TABLE DEPT;
```

Which three are true about the SQL statement? (Choose three.)

- A. It releases the storage space used by the table.
- B. It does not release the storage space used by the table.
- C. You can roll back the deletion of rows after the statement executes.
- D. You can NOT roll back the deletion of rows after the statement executes.
- E. An attempt to use DESCRIBE on the DEPT table after the TRUNCATE statement executes will display an error.
- F. You must be the owner of the table or have DELETE ANY TABLE system privileges to truncate the DEPT table

**Answer: A,D,F**

**Explanation:**

A: The TRUNCATE TABLE Statement releases storage space used by the table,

D: Can not rollback the deletion of rows after the statement executes,

F: You must be the owner of the table or have DELETE ANY TABLE system privilege to truncate the DEPT table.

Incorrect answer:

C is not true

E is not true

B is not true

Refer: Introduction to Oracle9i: SQL, Oracle University Study Guide, 8-18

**Question No : 2 - (Topic 1)**

You need to design a student registration database that contains several tables storing academic information.

The STUDENTS table stores information about a student. The STUDENT\_GRADES table stores information about the student's grades. Both of the tables have a column named STUDENT\_ID. The STUDENT\_ID column in the STUDENTS table is a primary key.

You need to create a foreign key on the STUDENT\_ID column of the STUDENT\_GRADES table that points to the STUDENT\_ID column of the STUDENTS table. Which statement creates the foreign key?

- A. CREATE TABLE student\_grades (student\_id NUMBER(12),semester\_end DATE, gpa NUMBER(4,3), CONSTRAINT student\_id\_fk REFERENCES (student\_id) FOREIGN KEY students(student\_id));
- B. CREATE TABLE student\_grades(student\_id NUMBER(12),semester\_end DATE, gpa NUMBER(4,3), student\_id\_fk FOREIGN KEY (student\_id) REFERENCES students(student\_id));
- C. CREATE TABLE student\_grades(student\_id NUMBER(12),semester\_end DATE, gpa NUMBER(4,3), CONSTRAINT FOREIGN KEY (student\_id) REFERENCES students(student\_id));
- D. CREATE TABLE student\_grades(student\_id NUMBER(12),semester\_end DATE, gpa NUMBER(4,3), CONSTRAINT student\_id\_fk FOREIGN KEY (student\_id) REFERENCES students(student\_id));

**Answer: D**

**Explanation:** CONSTRAINT name FOREIGN KEY (column\_name) REFERENCES table\_name (column\_name);

Incorrect answer:

- Ainvalid syntax
- Binvalid syntax
- Cinvalid syntax

Refer: Introduction to Oracle9i: SQL, Oracle University Study Guide, 10-14

### Question No : 3 - (Topic 1)

Here is the structure and data of the CUST\_TRANS table:

Exhibit:

```
CUST_TRANS
Name          Null?          Type
-----
CUSTNO        NOT NULL      CHAR(2)
TRANSDATE     DATE
TRANSAMT      NUMBER(6,2)
```

```
CUSTNO  TRANSDATE  TRANSAMT
-----
11      01-JAN-07  1000
22      01-FEB-07  2000
33      01-MAR-07  3000
```

Dates are stored in the default date format dd-mm-rr in the CUST\_TRANS table.

Which three SQL statements would execute successfully? (Choose three.)

- A. SELECT transdate + '10' FROM cust\_trans;
- B. SELECT \* FROM cust\_trans WHERE transdate = '01-01-07';
- C. SELECT transamt FROM cust\_trans WHERE custno > '11';
- D. SELECT \* FROM cust\_trans WHERE transdate='01-JANUARY-07';
- E. SELECT custno + 'A' FROM cust\_trans WHERE transamt > 2000;

**Answer: A,C,D**

**Question No : 4 - (Topic 1)**

See the Exhibit and examine the structure and data in the INVOICE table:

Exhibit:

```

INVOICE
Name          Null?         Type
-----
INV_NO        NOT NULL     NUMBER(3)
INV_DATE      DATE
CUST_ID       VARCHAR2(4)
INV_AMT       NUMBER(8,2)

INV_NO  INV_DATE    CUST_ID  INV_AMT
-----
1       01-APR-07    A1Q      1000
2       01-OCT-07    B1R      2000
3       01-FEB-07
  
```

Which two SQL statements would execute successfully? (Choose two.)

- A. SELECT MAX(inv\_date),MIN(cust\_id) FROM invoice;
- B. SELECT MAX(AVG(SYSDATE - inv\_date)) FROM invoice;
- C. SELECT (AVG(inv\_date) FROM invoice;
- D. SELECT AVG(inv\_date - SYSDATE),AVG(inv\_amt) FROM invoice;

**Answer: A,D**

### Question No : 5 - (Topic 1)

Which three statements are true regarding sub queries? (Choose three.)

- A. Multiple columns or expressions can be compared between the main query and sub query
- B. Main query and sub query can get data from different tables
- C. Sub queries can contain GROUP BY and ORDER BY clauses
- D. Main query and sub query must get data from the same tables
- E. Sub queries can contain ORDER BY but not the GROUP BY clause
- F. Only one column or expression can be compared between the main query and subquery

**Answer: A,B,C**

### Question No : 6 - (Topic 1)

See the Exhibit and examine the structure of the CUSTOMERS table:

Table CUSTOMERS		
Name	Null?	Type
CUST_ID	NOT NULL	NUMBER
CUST_FIRST_NAME	NOT NULL	VARCHAR2 (20)
CUST_LAST_NAME	NOT NULL	VARCHAR2 (40)
CUST_GENDER	NOT NULL	CHAR (1)
CUST_YEAR_OF_BIRTH	NOT NULL	NUMBER (4)
CUST_MARITAL_STATUS		VARCHAR2 (20)
CUST_STREET_ADDRESS	NOT NULL	VARCHAR2 (40)
CUST_POSTAL_CODE	NOT NULL	VARCHAR2 (10)
CUST_CITY	NOT NULL	VARCHAR2 (30)
CUST_STATE_PROVINCE	NOT NULL	VARCHAR2 (40)
COUNTRY_ID	NOT NULL	NUMBER
CUST_INCOME_LEVEL		VARCHAR2 (30)
CUST_CREDIT_LIMIT		NUMBER
CUST_EMAIL		VARCHAR2 (30)

Using the CUSTOMERS table, you need to generate a report that shown the average credit limit for customers in WASHINGTON and NEW YORK.

Which SQL statement would produce the required result?

**A.**

```
SELECT cust_city, AVG(cust_credit_limit)
FROM customers
WHERE cust_city IN ('WASHINGTON','NEW YORK')
GROUP BY cust_credit_limit, cust_city;
```

**B.**

```
SELECT cust_city, AVG(cust_credit_limit)
FROM customers
WHERE cust_city IN ('WASHINGTON','NEW YORK')
GROUP BY cust_city,cust_credit_limit;
```

**C.**

```
SELECT cust_city, AVG(cust_credit_limit)
FROM customers
WHERE cust_city IN ('WASHINGTON','NEW YORK')
GROUP BY cust_city;
```

**D.**

```
SELECT cust_city, AVG(NVL(cust_credit_limit,0))
FROM customers
WHERE cust_city IN ('WASHINGTON','NEW YORK');
```

**Answer: C**

**Explanation:**

Creating Groups of Data: GROUP BY Clause Syntax

You can use the GROUP BY clause to divide the rows in a table into groups. You can then

use the group functions to return summary information for each group.

In the syntax:

`group_by_expression` Specifies the columns whose values determine the basis for grouping rows

Guidelines

- If you include a group function in a SELECT clause, you cannot select individual results as well, unless the individual column appears in the GROUP BY clause. You receive an error message if you fail to include the column list in the GROUP BY clause.
- Using a WHERE clause, you can exclude rows before dividing them into groups.
- You must include the columns in the GROUP BY clause.
- You cannot use a column alias in the GROUP BY clause.

### Question No : 7 - (Topic 1)

Evaluate these two SQL statements:

```
SELECT last_name, salary, hire_date FROM EMPLOYEES ORDER BY salary DESC;
```

```
SELECT last_name, salary, hire_date FROM EMPLOYEES ORDER BY 2 DESC;
```

What is true about them?

- A.** The two statements produce identical results.
- B.** The second statement returns a syntax error.
- C.** There is no need to specify DESC because the results are sorted in descending order by default.
- D.** The two statements can be made to produce identical results by adding a column alias for the salary column in the second SQL statement.

**Answer: A**

**Explanation:** Explanation: the two statement produce identical results as ORDER BY 2 will take the second column as sorting column.

Incorrect answer:

Bthere is no syntax error

Cresult are sorted in ascending order by default

DORDER BY 2 will take the second column as sorting column.

Refer: Introduction to Oracle9i: SQL, Oracle University Study Guide, 2-22

**Question No : 8 - (Topic 1)**

Where can sub queries be used? (Choose all that apply)

- A. field names in the SELECT statement
- B. the FROM clause in the SELECT statement
- C. the HAVING clause in the SELECT statement
- D. the GROUP BY clause in the SELECT statement
- E. the WHERE clause in only the SELECT statement
- F. the WHERE clause in SELECT as well as all DML statements

**Answer: A,B,C,F**

**Explanation:**

SUBQUERIES can be used in the SELECT list and in the FROM, WHERE, and HAVING clauses of a query.

A subquery can have any of the usual clauses for selection and projection. The following are required clauses:

- A SELECT list
- A FROM clause

The following are optional clauses:

- WHERE
- GROUP BY
- HAVING

The subquery (or subqueries) within a statement must be executed before the parent query that calls it, in order that the results of the subquery can be passed to the parent.

**Question No : 9 - (Topic 1)**

Which three SQL statements would display the value 1890.55 as \$1,890.55? (Choose three.)



- A.**  
SELECT TO\_CHAR(1890.55,'\$99G999D00')  
FROM DUAL;
- B.**  
SELECT TO\_CHAR(1890.55,'\$9,999V99')  
FROM DUAL;
- C.**  
SELECT TO\_CHAR(1890.55,'\$0G000D00')  
FROM DUAL;
- D.**  
SELECT TO\_CHAR(1890.55,'\$99G999D99')  
FROM DUAL;
- E.**  
SELECT TO\_CHAR(1890.55,'\$9,999D99')  
FROM DUAL;

**Answer: A,C,D**

**Question No : 10 - (Topic 1)**

Evaluate the following SQL statement:

```
SQL> SELECT promo_id, promo_category  
FROM promotions  
WHERE promo_category = 'Internet' ORDER BY 2 DESC  
UNION  
SELECT promo_id, promo_category  
FROM promotions  
WHERE promo_category = 'TV'  
UNION  
SELECT promo_id, promo_category  
FROM promotions  
WHERE promo_category = 'Radio';
```

Which statement is true regarding the outcome of the above query?

- A.** It produces an error because the ORDER BY clause should appear only at the end of a compound query-that is, with the last SELECT statement
- B.** It executes successfully and displays rows in the descending order of PROMO\_CATEGORY

- C. It executes successfully but ignores the ORDER BY clause because it is not located at the end of the compound statement
- D. It produces an error because positional notation cannot be used in the ORDER BY clause with SET operators

**Answer: A**

**Explanation:**

Using the ORDER BY Clause in Set Operations

The ORDER BY clause can appear only once at the end of the compound query.

Component queries cannot have individual ORDER BY clauses.

The ORDER BY clause recognizes only the columns of the first SELECT query.

By default, the first column of the first SELECT query is used to sort the output in an ascending order.

**Question No : 11 - (Topic 1)**

Which statement correctly describes SQL and /SQL\*Plus?

- A. Both SQL and /SQL\*plus allow manipulation of values in the database.
- B. /SQL\*Plus recognizes SQL statements and sends them to the server; SQL is the Oracle proprietary interface for executing SQL statements.
- C. /SQL\*Plus is a language for communicating with the Oracle server to access data; SQL recognizes SQL statements and sends them to the server.
- D. SQL manipulates data and table definitions in the database; /SQL\*Plus does not allow manipulation of values in the database.

**Answer: A**

**Question No : 12 - (Topic 1)**

Which four are types of functions available in SQL? (Choose 4)

- A. string
- B. character
- C. integer
- D. calendar
- E. numeric