



# 1Z0-051<sup>Q&As</sup>

Oracle Database 11g : SQL Fundamentals I

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**QUESTION 1**

Examine the structure of the EMPLOYEES and NEW\_EMPLOYEES tables:

EMPLOYEES

EMPLOYEE\_ID NUMBER Primary Key

FIRST\_NAME VARCHAR2(25)

LAST\_NAME VARCHAR2(25)

HIRE\_DATE DATE

NEW\_EMPLOYEES

EMPLOYEE\_ID NUMBER Primary Key

NAME VARCHAR2(60)



Which DELETE statement is valid?

- A. DELETE FROM employees WHERE employee\_id = (SELECT employee\_id FROM employees);
- B. DELETE \* FROM employees WHERE employee\_id=(SELECT employee\_id FROM new\_employees);
- C. DELETE FROM employees WHERE employee\_id IN (SELECT employee\_id FROM new\_employees WHERE name = 'Carrey\');
- D. DELETE \* FROM employees WHERE employee\_id IN (SELECT employee\_id FROM new\_employees WHERE name = 'Carrey\');

Correct Answer: C

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**QUESTION 2**

Examine the structure and data of the CUSTJTRANS table:

CUSTJTRANS 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-mon-rr in the CUSTJTRANS table. Which three SQL statements would execute successfully? (Choose three.)

- A. SELECT transdate + '\10\1' FROM custjtrans;
- B. SELECT \* FROM custjtrans WHERE transdate = '\01-01-07\1':
- C. SELECT transamt FROM custjtrans WHERE custno > '\11\1':
- D. SELECT \* FROM custjtrans WHERE transdate='\01-JANUARY-07\1':
- E. SELECT custno - '\A\1' FROM custjtrans WHERE transamt > 2000:



Correct Answer: ACD

### QUESTION 3

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\1' FROM cust\_trans;
- B. SELECT \* FROM cust\_trans WHERE transdate = '\01-01-07\1';
- C. SELECT transamt FROM cust\_trans WHERE custno > '\11\1';
- D. SELECT \* FROM cust\_trans WHERE transdate='\01-JANUARY-07\1';
- E. SELECT custno + '\A\1' FROM cust\_trans WHERE transamt > 2000;

Correct Answer: ACD

### QUESTION 4

The DBA issues this SQL command:

```
CREATE USER Scott IDENTIFIED by tiger;
```

What privileges does the user Scott have at this point?

- A. No privileges.
- B. Only the SELECT privilege.
- C. Only the CONNECT privilege.
- D. All the privileges of a default user.

Correct Answer: A



There are no privileges for the user Scott at this point. They are not added themselves to the user immediately after creation. The DBA needs to grant all privileges explicitly.

Incorrect Answers

B: There are no privileges for the user Scott at this point. SELECT privilege needs to be added to the user Scott.

C: There are no privileges for the user Scott at this point. CONNECT privilege needs to be added to the user Scott.

D: There is no default user in Oracle.

OCF Introduction to Oracle 9i: SQL Exam Guide, Jason Couchman, p. 348-351 Chapter 8: User Access in Oracle

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### QUESTION 5

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

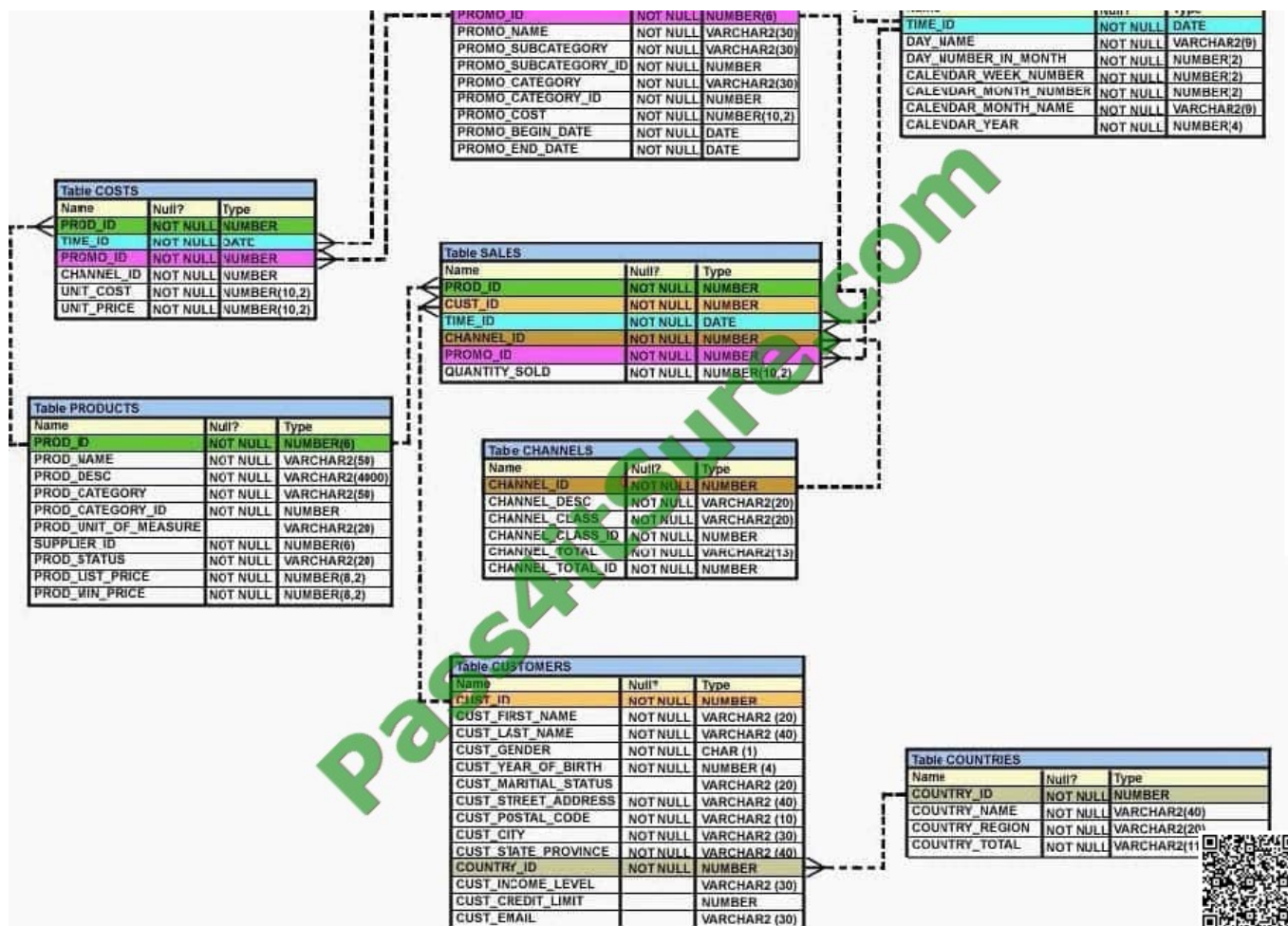
- A. Multiple columns or expressions can be compared between the main query and sub query
- B. Sub queries can contain GROUP BY and ORDER BY clauses
- C. Only one column or expression can be compared between the main query and subquery
- D. Main query and sub query can get data from different tables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

Correct Answer: ABD

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### QUESTION 6

You work as a database administrator at ABC.com. You study the exhibit carefully and examine the structure of CUSTOMRS AND SALES tables.



Evaluate the following SQL statement: Exhibit:

```
UPDATE (SELECT prod_id, cust_id, quantity_sold, time_id
FROM sales)
SET time_id = '22-MAR-2007'
WHERE cust_id = (SELECT cust_id
FROM customers
WHERE cust_last_name = 'Roberts'
AND credit_limit = 600);
```

Which statement is true regarding the execution of the above UPDATE statement?

- A. It would execute and restrict modifications to only the column specified in the SELECT statement
- B. It would not execute because two tables cannot be used in a single UPDATE statement
- C. It would not execute because a sub query cannot be used in the WHERE clause of an UPDATE statement
- D. It would not execute because the SELECT statement cannot be used in place of the table name

Correct Answer: A



### QUESTION 7

Which four are attributes of single row functions? (Choose four.)

- A. cannot be nested
- B. manipulate data items
- C. act on each row returned
- D. return one result per row
- E. accept only one argument and return only one value
- F. accept arguments which can be a column or an expression

Correct Answer: BCDF

manipulate data items, act on each row returned, return one result per row, and accept arguments that can be a column or expression.

Incorrect answer:

A is not single row attributes

E functions can accept more than one argument, e.g NVL2

Refer: Introduction to Oracle9i: SQL, Oracle University Study Guide, 3-5

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### QUESTION 8

You issue the following command to drop the PRODUCTS table: SQL>DROP TABLE products;

What is the implication of this command? (Choose all that apply.)

- A. All data in the table are deleted but the table structure will remain
- B. All data along with the table structure is deleted
- C. All views and synonyms will remain but they are invalidated
- D. The pending transaction in the session is committed
- E. All indexes on the table will remain but they are invalidated

Correct Answer: BCD

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### QUESTION 9

EMPLOYEES and DEPARTMENTS data: EMPLOYEES





EMPLOYEE_ID	EMP_NAME	DEPT_ID	MGR_ID	JOB_ID	SALARY
101	Smith	20	120	SA_REP	4000
102	Martin	10	106	CLERK	2500
103	Chris	20	120	IT_ADMIN	4200
104	John	30	108	HR_CLERK	2500
105	Diana	30	108	IT_ADMIN	5000
106	Smith	40	110	AD_ASST	3000
108	Jennifer	30	110	HR_DIR	6500
110	Bob	40		EX_DIR	8000
120	Ravi	20	110	SA_DIR	6500

## DEPARTMENTS

DEPARTMENT_ID	DEPARTMENT_NAME
10	Admin
20	Education
30	IT
40	Human Resources

On the EMPLOYEES table, EMPLOYEE\_ID is the primary key. MGR\_ID is the ID managers and refers to the EMPLOYEE\_ID. On the DEPARTMENTS table DEPARTMENT\_ID is the primary key.

Evaluate this UPDATE statement.

```
UPDATE employees SET mgr_id = (SELECT mgr_id FROM employees WHERE dept_id= (SELECT department_id FROM departments WHERE department_name = 'Administration')), Salary = (SELECT salary FROM employees WHERE emp_name = 'Smith') WHERE job_id = 'IT_ADMIN';
```

What happens when the statement is executed?

- A. The statement executes successfully, leaves the manager ID as the existing value, and changes the salary to 4000 for the employees with ID 103 and 105.
- B. The statement executes successfully, changes the manager ID to NULL, and changes the salary to 4000 for the employees with ID 103 and 105.
- C. The statement executes successfully, changes the manager ID to NULL, and changes the salary to 3000 for the employees with ID 103 and 105.
- D. The statement fails because there is more than one row matching the employee name Smith.
- E. The statement fails because there is more than one row matching the IT\_ADMIN job ID in the EMPLOYEES table.
- F. The statement fails because there is no 'Administration' department in the DEPARTMENTS table.

Correct Answer: D



'=' is used in the statement and sub query will return more than one row. Employees table has 2 rows matching the employee name Smith. The update statement will fail.

Incorrect Answers :

A. The Update statement will fail no update was done.

B. The update statement will fail no update was done.

C. The update statement will fail no update was done.

E. The update statement will fail but not due to job\_id='IT\_ADMIN' F. The update statement will fail but not due to department\_id='Administration'

Refer: Introduction to Oracle9i: SQL, Oracle University Student Guide, Sub queries, p. 6-12

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### QUESTION 10

You need to generate a list of all customer last names with their credit limits from the CUSTOMERS table. Those customers who do not have a credit limit should appear last in the list. Which two queries would achieve the required result? (Choose two.)

A. SELECT cust\_last\_name, cust\_credit\_limit FROM customers ORDER BY cust\_credit\_limit DESC;

B. SELECT cust\_last\_name, cust\_credit\_limit FROM customers ORDER BY cust\_credit\_limit;

C. SELECT cust\_last\_name, cust\_credit\_limit FROM customers ORDER BY cust\_credit\_limit NULLS LAST;

D. SELECT cust\_last\_name, cust\_credit\_limit FROM customers ORDER BY cust\_last\_name, cust\_credit\_limit NULLS LAST;

Correct Answer: BC

If the ORDER BY clause is not used, the sort order is undefined, and the Oracle server may not fetch rows in the same order for the same query twice. Use the ORDER BY clause to display the rows in a specific order.

Note: Use the keywords NULLS FIRST or NULLS LAST to specify whether returned rows containing null values should appear first or last in the ordering sequence. ANSWER C Sorting The default sort order is ascending:

?Numeric values are displayed with the lowest values first (for example, 1 to 999). ?Date values are displayed with the earliest value first (for example, 01-JAN-92 before 01-JAN95).

?Character values are displayed in the alphabetical order (for example, "A"; first and "Z"; last). ?Null values are displayed last for ascending sequences and first for descending sequences.

-ANSWER B

?You can also sort by a column that is not in the SELECT list.

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### QUESTION 11

A data manipulation language statement \_\_\_\_\_.





- A. completes a transaction on a table
- B. modifies the structure and data in a table
- C. modifies the data but not the structure of a table
- D. modifies the structure but not the data of a table

Correct Answer: C

modifies the data but not the structure of a table

Incorrect answer:

A DML does not complete a transaction

B DDL modifies the structure and data in the table

D DML does not modified table structure.

Refer: Introduction to Oracle9i: SQL, Oracle University Study Guide, 8-3

## QUESTION 12

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

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

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		3000

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

Correct Answer: AB



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