## [DT 2025] Quiz 1 - General concepts, data management, SQL

Duration 10 minutes Collaborating with other students and using books and notes during the quiz is not permitted. \* Obbligatoria \* Questo modulo registrerà il tuo nome, inserire il nome. Enter your Last Name and First Name \* I declare that I will not collaborate with other students and I will not use books or notes or other material during the quiz. \* Yes O No Which of the following SQL statements is correct and meaningful considering the following PRODUCT (PROD ID, PROD\_NAME) SALES (PROD\_ID, YEAR, STORE, QUANTITY) (1 punto) SELECT NAME FROM PRODUCT None of the above SELECT YEAR FROM SALES WHERE STORE = 'MyStore' SELECT PROD\_NAME, STORE FROM PRODUCT, SALES How is information defined in the context of data? (1 punto)

A collection of random facts

Data that has not been processed

The interpretation of a data item or set of data

Complete the following SQL statement in a DB with the following tables, to retrieve the names of products produced in one of the following years: 2023, 2024

## PRODUCT (<u>PROD\_ID</u>, PROD\_NAME) SALES (<u>PROD\_ID</u>, <u>YEAR</u>, <u>STORE</u>, QUANTITY)

SELECT P.PROD_NAME FROM SALES S, PRODUCT P WHERE1_ AND2 (2 punti)			
$\bigcirc$	1) P.PROD_ID=S.PROD_ID	2) YEAR=2023 OR YEAR = 2024	
$\bigcirc$	1) P.PROD_ID=S.PROD_ID	2) (YEAR=2023 OR 2024)	
$\bigcirc$	none of the above		
$\bigcirc$	1) P.PROD_ID=S.PROD_ID	2) (YEAR=2023 OR YEAR=2024)	
What is a key characteristic of OLTP systems? (1 punto)			
$\bigcirc$	support of operational activities		
$\bigcirc$	Complex data aggregation		
$\bigcirc$	Long-term data storage		
According to Moody's laws, which of the following statements is true? (1 punto)			
$\bigcirc$	very large quantities of data are always going to produce more value		
$\bigcirc$	The value of information is related to its use		
$\bigcirc$	The value of information does not change over ti	me	
What is metadata? (1 punto)			
$\bigcirc$	Data about data.		
$\bigcirc$	Data that is encrypted for security.		
$\bigcirc$	Data that is used for marketing purposes.		

How do you fill in the blank in the following statement to add a column CITY to table SALES ( $\underline{PROD\ ID}$ , $\underline{YEAR}$ , $\underline{STORE}$ , $\underline{QUANTITY}$ )?		
TABLE SALES ADD CITY (1 punto)		
○ ALTER		
○ UPDATE		
○ INSERT		
Which of the following queries is preferable if you want to retrieve the quantity of the product with code 'P1' in the year 2024 and the stores in which it is sold?  PRODUCT (PROD ID, PROD_NAME)  SALES (PROD ID, YEAR, STORE, QUANTITY)		
Options:		
A) SELECT * FROM PRODUCT P, SALES S WHERE S.PROD_ID='P1' AND S.YEAR = 2024		
B) SELECT STORE, QUANTITY FROM SALES WHERE PROD_ID='P1' AND YEAR = 2024		
C) SELECT S.STORE, S.QUANTITY FROM PRODUCT P, SALES S WHERE S.PROD_ID='P1' AND S.YEAR = 2024 AND P.PROD_ID = S.PROD_ID (2 punti)		
All of the above		
○ A		
ОВ		
○ c		
None of the above		
Which statement is not true about DBMSs? (1 punto)		
a DBMS is a software system		
a DBMS supports concurrent interactions on the database by multiple users		

a DBMS manages only SQL queries

Why the base of the DIKW (Data Information Knowledge Wisdom) pyramid is larger? (1 punto)
ovolume of data
needed resources
larger infrastructure
In an OLTP system the operations on data are (1 punto)
write only
read and write
C read only
What type of data do OLAP systems primarily process? (1 punto)
Current data
Historical data
Real-time data
Which is a foreign key in table SALES?
SALES ( <u>PROD ID</u> , <u>YEAR</u> , <u>STORE</u> , QUANTITY) PRODUCT ( <u>PID</u> , PROD_NAME) (1 punto)
none of the above
PROD_ID, YEAR, STORE
○ ID
O PROD_ID

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