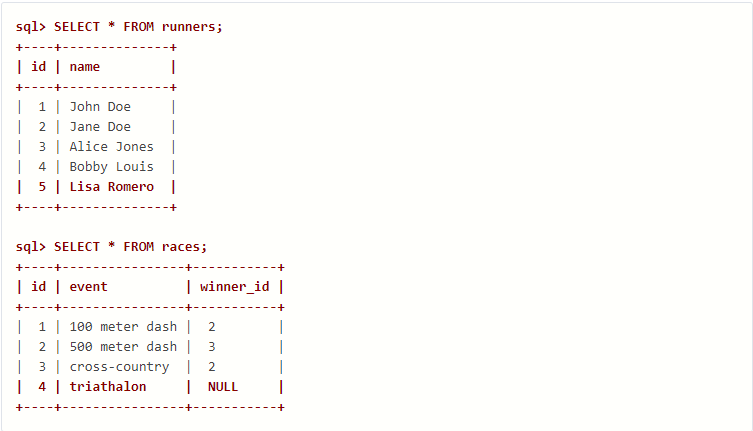
SQL

Question -1



What will be the result of the query below?

**SELECT** \* **FROM** runners **WHERE** id **NOT** **IN** (**SELECT** winner\_id **FROM** races)

Explain your answer and also provide an alternative version of this query that will avoid the issue that it exposes.

Answer –

**Potential Issue:**

The problem arises if the races table has rows where winner\_id is NULL. The NOT IN operator with NULL can have unexpected behavior in some databases. In some cases, it might exclude rows from the outer query that should have been included (runners who never won a race but have no winner\_id entry because they didn't participate).

**Improved Alternative:**

To address this issue and ensure we accurately identify runners who never won, here's an alternative query:

SELECT \* FROM runners r

WHERE r.id NOT EXISTS (

SELECT 1 FROM races rc

WHERE rc.winner\_id = r.id

);