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Event in Temporal Databases

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Cross-References

- [Temporal Database](#)
- [Temporal Granularity](#)
- [Time Instant](#)
- [Valid Time](#)

Synonyms

[Event relation](#); [Instant relation](#)

Definition

An *event* is an instantaneous fact, i.e., something occurring at an instant of time.

Key Points

Some temporal data models support valid-time relations where tuples represent events and where the tuples are thus timestamped with time values that represent time instants. When granules are used as timestamps, an event timestamped with granule t occurs, or is valid, at some instant during t .

It may be observed that more general kinds of events have also been considered in the literature, including events with duration and complex and composite events.

Recommended Reading

1. Bettini C, Dyreson CE, Evans WS, Snodgrass RT, Wang XS. A glossary of time granularity concepts. In: Etzion O, Jajodia S, Sripada S, editors. Temporal databases: research and practice. LNCS 1399. Berlin/Heidelberg/New York: Springer; 1998. p. 406–13.
2. Events. The Internet encyclopedia of philosophy. Available at: <http://www.iep.utm.edu/e/events.htm>
3. Jensen CS, Dyreson CE. A consensus glossary of temporal database concepts – February 1998 version. In: Etzion O, Jajodia S, Sripada S, editors. Temporal databases: research and practice. LNCS 1399. Berlin/Heidelberg/New York: Springer; 1998. p. 367–405.