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Relational database evolution in ATLAS

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Relational databases are critical backend storage for many systems in ATLAS (both online, offline, and on the grid), storing essential data for the processing of past and current data as well as support daily operations. These systems have been refined over time into robust applications optimized and provisioned for established use cases. Relational storage is well suited for many of these systems and so it is logical to assume that their support must be continued. In this talk, we summarize the current usage of relational databases in ATLAS and project into the future the needed data volumes to support their future operations. In addition, relational technologies have evolved over time, offering ever-expanding functionality as well as supporting increasing data volumes. These factors, along with the suitability of relational storage for many applications, will result in an increasing need for new applications utilizing this form of storage.

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