**SQL to Azure Log Analytics query language cheat sheet**

| **Description** | **SQL Query** | **Azure Log Analytics Query** |
| --- | --- | --- |
| Select all data from a table | SELECT \* FROM dependencies | dependencies |
| Select specific columns from a table | SELECT name, resultCode FROM dependencies | dependencies  | project name, resultCode |
| Select 100 records from a table | SELECT TOP 100 \* FROM dependencies | dependencies  | take 100 |
| Null evaluation | SELECT \* FROM dependencies WHERE resultCode IS NOT NULL | dependencies  | where isnotnull(resultCode) |
| String comparison: equality | SELECT \* FROM dependencies WHERE name = "abcde" | dependencies  | where name == "abcde" |
| String comparison: substring | SELECT \* FROM dependencies WHERE like "%bcd%" | dependencies  | where name contains "bcd" |
| String comparison: wildcard | SELECT \* FROM dependencies WHERE name like "abc%" | dependencies  | where name startswith "abc" |
| Date comparison: last 1 day | SELECT \* FROM dependencies WHERE timestamp > getdate()-1 | dependencies  | where timestamp > ago(1d) |
| Date comparison: date range | SELECT \* FROM dependencies WHERE timestamp BETWEEN '2016-10-01' AND '2016-11-01' | dependencies  | where timestamp between (datetime(2016-10-01) .. datetime(2016-10-01)) |
| Boolean comparison | SELECT \* FROM dependencies WHERE !(success) | dependencies  | where success == "False" |
| Sort | SELECT name, timestamp FROM dependencies ORDER BY timestamp asc | dependencies  | order by timestamp asc |
| Distinct | SELECT DISTINCT name, type FROM dependencies | dependencies  | summarize by name, type |
| Grouping, Aggregation | SELECT name, AVG(duration) FROM dependencies GROUP BY name | dependencies  | summarize avg(duration) by name |
| Column aliases, Extend | SELECT operation\_Name as Name, AVG(duration) as AvgD FROM dependencies GROUP BY name | dependencies  | summarize AvgD=avg(duration) by operation\_Name  | project Name=operation\_Name, AvgD |
| Top n recrods by measure | SELECT TOP 100 name, COUNT(\*) as Count FROM dependencies GROUP BY name ORDER BY Count asc | dependencies  | summarize Count=count() by name  | top 100 by Count asc |
| Union | SELECT \* FROM dependencies UNION SELECT \* FROM exceptions | union dependencies, exceptions |
| Union: with conditions | SELECT \* FROM dependencies WHERE value > 4 UNION SELECT \* FROM exceptions value < 5 | dependencies  | where value > 4  | union (exceptions  | where value < 5) |
| Join | SELECT \* FROM dependencies JOIN exceptions ON dependencies.operation\_Id = exceptions.operation\_Id | dependencies  | join (exceptions) on operation\_Id == operation\_Id |