

## Section-4

Q<sub>2</sub> What is database design soft. quality metrics?  
Explain the design and code reviews.

Ans Database design → Database or data design creates a model of data that is represented at a high level of abstraction.

Data architecture are limited to ~~part~~ data structures at the program level and databases at the application level.

Software quality metrics ::

⇒ Soft. metrics are quantifiable measures that could be used to measure diff. characteristics of a software system or the software development process.

Diff. metrics for measuring ::

(a) Correctness: The most common measure for correctness is defects per KLOC, where defect is defined as verified.

(b) Maintainability → which a program can be corrected, if an error is encountered.

## # Code Review ::

Code review is systematic examination of computer source code. It is intended to find and fix mistakes overlooked in the initial development phase, improving both the overall quality of SW and developer skills.

Code reviews can often find and remove common vulnerabilities such as format string exploits, race conditions, memory leaks and buffer overflow.