# LET'S START WITH DBMS :)

## Concurrent VS Parallel Schedule

| For | Concurrent | Parallel |
|---|---|---|
| Defination | Concurrent scheduling manages multiple tasks at the same time. Tasks can overlap in their execution periods but do not run exactly simultaneously. | Parallel scheduling runs multiple tasks simultaneously using multiple cores or processors. Each task is executed on a separate core or processor at the same time. |
| Execution | Achieved on a single-core processor through context switching, where the CPU rapidly alternates between tasks, creating the illusion of simultaneous execution. | Requires a multi-core processor or multiple processors, with each core/processor handling a different task concurrently. |
| Example | Multi-threading on a single-core CPU, where threads take turns using the CPU. | Multi-threading on a multi-core CPU, where threads run concurrently on different cores. |