



Process FD:

pid -> pName

pid -> pTime

pid -> pTimeUnit

pid -> pLastMod

pName, pTime, pTimeUnit and pLastMod are dependent on pid(PK)

Activity FD:

cID -> cName

cID -> eid

cID -> pid

cName, eid and pid are dependent on cID(PK)

ExecutionTime FD:

eid -> averageTime

eid -> bestTime

eid -> worstTime

averageTime, bestTime and worstTime are dependent on eid(PK)

ActorToProcess FD:

a2p_id -> pid

a2p_id -> aid

pid and aid are dependent on a2p_id(PK)

ProcessActor FD:

aid -> name

name is dependent on aid(PK)

Proof that it is in 1NF:

For each relation, every attribute has exactly one value from the domain of that attribute, and every record is unique.

Proof that it is in 2NF:

It's already in 1NF and for each relation, every non-key attribute is fully dependent on the relation's primary key(no partial dependency for each relation), as described above.

Proof that it is in 3NF:

It's already in 2NF and for each relation, every non-key attribute is non-transitively dependent on the relation's primary key, as described above.