**BOOKS (Bid , Bname , Price , Pub\_id , Aid, A\_paid)**

Bid->{Bname, Price , Pub\_id , Aid, A\_paid }

Bid is the candidate key.

There is no multi valued attribute so the table is in 1nf.

Bid is the primary key so there is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**JOURNALS (Jid , Jname , Price, No\_art , Pub\_id}**

Jid->{ Jname , Price, No\_art , Pub\_id }

Jid is the candidate key.

There is no multi valued attribute so the table is in 1nf.

Jid is the primary key so there is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**ARTICLES (Art\_id , Art\_name ,Jid)**

Art\_id ->{ Art\_name ,Jid }

Art\_id is the candidate key.

There is no multi valued attribute so the table is in 1nf.

Art\_id is the primary key so there is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**AUTHORS (Aid , Aname ,Address , Phone)**

Aid->{ Aname ,Address , Phone }

Aid is the candidate key.

There is no multi valued attribute so the table is in 1nf.

Aid is the primary key so there is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**PUBLISHERS (Pub\_id , Pub\_name , Address, Phone)**

Pub\_id->{ Pub\_name , Address, Phone}

Pub\_id is the candidate key.

There is no multi valued attribute so the table is in 1nf.

Pub\_id is the primary key so there is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**PROFESSIONAL { Pro\_id , Pro\_name ,Aid}**

Pro\_id ->{ Pro\_name ,Aid}

Pro\_id is the candidate key.

There is no multi valued attribute so the table is in 1nf.

Pro\_id is the primary key so there is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**ABBREVIATION {Abb\_id, Jid, Date}**

Abb\_id ->{ Date ,Jid }

Abb\_id is the candidate key.

There is no multi valued attribute so the table is in 1nf.

Abb\_id is the primary key so there is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**WARTICLE {Aid , Art\_id }**

Aid , Art\_idis a composite primary key.

There is no multi valued attribute so the table is in 1nf.

There is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**AREVIEW {Pro\_id , Art\_id }**

Pro\_id , Art\_idis a composite primary key.

There is no multi valued attribute so the table is in 1nf.

There is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.

**BREVIEW {Pro\_id , Bid , Paid }**

{Pro\_id , Bid} -> Paid

Pro\_id , Bid is the candidate key.

There is no multi valued attribute so the table is in 1nf.

Pro\_id , Bid is the primary key so there is no partial dependency, so the relation is in 2nf.

The table is in 3nf as there is no transitive dependency.