

## BCNF Relational Schema

### Researcher

Researcher(  
ResearcherID,  
name,  
email\_address,  
ORCID\_identifier,  
institution,  
department,  
academic\_title,  
lab\_name  
)

Primary Key: ResearcherID

Alternate Keys: email\_address, ORCID\_identifier

### Publication

Publication(  
PublicationID,  
title,  
abstract,  
publication\_year,  
publication\_date,  
digital\_object\_identifier,  
venue\_name,  
publication\_type,  
status  
)

Primary Key: PublicationID

Alternate Key: digital\_object\_identifier

### Role

Role(  
RoleID,  
role\_name,  
role\_description,  
role\_category,  
status  
)

Primary Key: RoleID

Alternate Key: role\_name

## **Topic**

Topic(  
TopicID,  
topic\_name,  
topic\_description,  
topic\_category  
)

Primary Key: TopicID

Alternate Key: topic\_name

## **Contribution**

Contribution(  
ResearcherID,  
PublicationID,  
RoleID,  
contribution\_notes,  
date\_recorded,  
verification\_status  
)

Primary Key: (ResearcherID, PublicationID, RoleID)

Foreign Keys:

ResearcherID references Researcher(ResearcherID)

PublicationID references Publication(PublicationID)

RoleID references Role(RoleID)

## **PublicationTopic**

PublicationTopic(  
PublicationID,  
TopicID,  
date\_associated  
)

Primary Key: (PublicationID, TopicID)

Foreign Keys:

PublicationID references Publication(PublicationID)

TopicID references Topic(TopicID)

## **Administrator**

Administrator(  
AdminID,  
name,  
email\_address,  
system\_role,  
account\_status  
)

Primary Key: AdminID  
Alternate Key: email\_address

## **Audit**

Audit(  
AdminID,  
PublicationID,  
audit\_timestamp,  
audit\_notes  
)

Primary Key: (AdminID, PublicationID, audit\_timestamp)

Foreign Keys:

AdminID references Administrator(AdminID)

PublicationID references Publication(PublicationID)