Database Design and Creation for The Journal of Computing Professionals

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Submitted to:
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As
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I. Introduction

As a reoccurring journal with many records, you are an enterprise who requires a database system. A database system is an electronic record keeping system. A database system contains a database, which is your collection of persistent data regarding your enterprise. Persistent data is the data that cannot be 100% removed from your database. Persistent data is broken down into two types of data: operation data and decision support data. Your operational data is the data used in the day to day operations of your enterprise, and your decision support data is the data used by any level of management for making a decision. Operational data consists of core data and associate data. Core data represents the entities vital to the existence of your enterprise, and associate data is the data connecting any two entities or representing the association between two pieces of data within a given entity. An entity is anything in the world that exists [1].

Your journal issues, scientific articles, interns, etc. are the core data of your enterprise. It is our job as your database designer to define the best storage structure of your database [1]. We do this by gathering semantic rules about your database. Semantic rules are facts about the database we are designing for your enterprise [2]. We will gather these rules using the two excerpts from your journal that you provided us with. From these rules, we will derive functional and multi valued dependencies from the entities, attributes, and entity identifiers to create a universal relation diagram.

Functional dependencies (FDs) are defined as follows: “Given a relation R, attribute y of R is functionally dependent on attribute x of R if and only if whenever two tuples of R agree on their x-values, they also agree on their y-values” [3]. A tuple is defined as, “A number of values for one instance of an entity represented by a relation.” An attribute is a subset of a domain where there is an underlying, not necessarily distinct domain for every attribute of a relation. A relation is defined as, “a subset of cartesian product of n not necessarily distinct domains.” A domain is a pool of data where all data in a domain must have the same type [4].

An entity identifier is an attribute that identifies an entity [2], and a key is a set of attributes that have a unique value for every tuple [4]**.** A universal relation diagram is equivalent to an initial FD diagram, and contains a visualization of all of the functional and multi valued dependencies derived from the semantic rules [2]. After creating the universal relation diagram, we will simplify and then normalize the universal relation. Normalization is the reduction that we perform on relations in order to remove operational anomalies. We normalize a relation into a normal form by splitting it into sub-relations until the properties of the desired normal form are satisfied [2].

Operational anomalies are the anomalies of inserting, deleting, and updating. An insertion anomaly happens when a tuple that violates the entity integrity rule is inserted into a relation [3]. The entity integrity rule states that no part of a primary key can be null [7]. Thus, inserting a tuple with a null primary key value creates an insertion anomaly. Updating anomaly is defined as, “Changing the value of a tuple and not consistently updating the changes to other instances that share it.” Deletion anomaly is defined as, “Deleting a tuple and losing important data that needs to be in the database” [3].

Once your universal relation is normalized to 4NF, it will contain the final set of functional and multi valued dependencies that define your database. A relation, R, is in 4NF if whenever there is a non-trivial multi-view dependency (MVD), if x ->-> y, then x is a super key of R. In relation R(x, y, x), the MVD of x ->-> y (two arrows implies x determines multi values

of y) holds if the following two conditions are true: 1. each x value is associated with a set of y values, and 2. such associations is not dependent on z [6].

R(x, y, z) represents a relation with attributes x, y, and z as an intension of a relation R2. Intensions of a relation are the relation name with the all the relations attributes contained in parenthesis. An intension of a relation doesn't show instances of a relation, only the types of the attributes, with the primary key underlined [7]. The type of an attribute (name of the attribute) is time independent and cannot be repeated. The instance of an attribute is time dependent and can be repeated [4].

II. Semantic Rules

The following list of semantic rules have been derived using the journal excerpts that you provided for us. They are derived from exhaustive evaluations of the excerpts and considerations of what your enterprise requires in its database, and how that data must be represented. These semantic rules are facts about your database and are clear and unambiguous, such that anyone who reads them obtains the same understanding [2].

1. Each journal has only one title, and publication frequency.
2. Each journal has multiple issues.
3. Each issue has only one volume number, issue number, month, day, and year.
4. Each issue has multiple scientific articles, call for papers, events, jobs, and interns.
5. Each conference has only one title, start day, end day, start month, end month, start year, end year, location name, country, state, and city.
6. Each conference has multiple chairs and conference organizations.
7. Each conference organization has only one name, relationship, country, state, city, street, and zip code.
8. Each chair has only one name, type, and organization name.
9. Each call for papers has only one conference, secretariat, and call for papers body.
10. Each call for papers has multiple topics and deadlines.
11. Each deadline has only one deadline label, year, month, and day.
12. Each secretariat has only one title, email, fax, phone number, address heading, country, state, city, street, and postal code.
13. Each scientific article has only one title, paper body, and page number.
14. Each scientific article has multiple authors, topics, keywords, and references.
15. Each reference has only one title, type, and reference body.
16. Each reference has multiple authors.
17. Each event has only one start year, start month, start day, end year, end month, end day, title, event country, event location body, event body, contact title, and contact body.
18. Each event has multiple sponsoring organizations.
19. Each job has only one position, job country, job state, job city, number of references required, organization, application type, job status, job body, contact title, contact body, and salary.
20. Each job has multiple job qualifications and job deadlines.
21. Each job qualification has only one qualification label and qualification value.
22. Each job deadline has only one deadline label, year, month, and day.
23. Each intern has only one name, graduating year, country from, state from, city from, degree type, degree title, and intern description body.

II.1. Conversions into Dependencies

For each semantic rule we will: (1) identify the entities in the semantic rule, (2) determine the attributes of each entity and give them a name, (3) determine an entity identifier and if there isn't one we will create an artificial entity identifier, and then (4) write the FD or MVD derived from the rule. An artificial entity identifier is created when there is not an entity identifier to choose from in the attributes provided, or when no attributes are provided for an entity [2]. A candidate key is a key that satisfies both the uniqueness and minimality conditions of a key. A key satisfies the uniqueness condition if it's a set of attributes that uniquely identifies every tuple in a relation, and a key satisfies the minimality condition if the numbers of attributes participating in a key is minimal [4].

Semantic Rule 1:
Each journal has only one title, and publication frequency.

1. Entity(s): journal
2. Attributes:
    a. title = JORNTITLE
    b. publication frequency = PUBFREQ
3. Entity Identifier:
    a. journal = JORNTITLE, because the title of a journal is unique, and is therefore the most appropriate candidate key to identify the entity journal.
4. FD: JORNTITLE -> PUBFREQ

Semantic Rule 2:
Each journal has multiple issues.

1. Entity(s): journal, issue
2. Attributes:
    a. journal: none provided in semantic rule.
    b. issue: none provided in semantic rule.
3. Entity Identifier:
    a. journal: JORNTITLE, chosen in semantic rule 1.
    b. issue: ISSUE#, chosen in semantic rule 3.
4. MVD: JORNTITLE ->-> ISSUE#

Semantic Rule 3:
Each issue has only one volume number, issue number, month, day, and year.

1. Entity(s): issue
2. Attributes:
    a. volume number = VOL#
    b. issue number = ISSUE#
    c. month = ISSUEMONTH
    d. day = ISSUEDAY
    e. year = ISSUEYEAR
3. Entity Identifier:
    a. issue = ISSUE#, because the issue number of each issue is unique, and is therefore the most appropriate candidate key to identify the entity issue
4. FD: ISSUE # -> VOL#, ISSUEMONTH, ISSUEDAY, ISSUEYEAR

Semantic Rule 4:
Each issue has multiple scientific articles, call for papers, events, jobs, and interns.

1. Entity(s): scientific article, call for papers, event, job, intern
2. Attributes:

None provided in semantic rule.

3. Entity Identifier:
    a. scientific article: ART#, chosen in semantic rule 13.
    b. call for papers: CALLFOR#, chosen in semantic rule 9.
    c. event: EVNT#, chosen in semantic rule 17.
    d. job: JOB#, chosen in semantic rule 19.
    e. intern: INT#, chosen in semantic rule 23
4. MVD: ISSUE# ->-> ART#, CALLFOR#, EVNT#, JOB#, INT#

Semantic Rule 5:

Each conference has only one title, start day, end day, start month, end month, start year, end year, location name, country, state, and city.

1. Entity(s): conference
2. Attributes:
    a. title = CONTITLE
    b. start day = CONSDAY
    c. end day = CONEDAY
    d. start month = CONSMONTH
    e. end month = CONEMONTH
    f. start year = CONSYEAR
    g. end year = CONEYEAR
    h. location name = CONLOC
    i. county = CONCOUNTRY
    j. state = CONSTATE
    k. city = CONCITY
3. Entity Identifier:
    a. conference = CON#, artificial identifier created because no provided attributes sufficiently identify the entity conference.
4. FD: CON# -> CONTITLE, CONSDAY, CONEDAY, CONSMONTH, CONEMONTH, CONSYEAR, CONEYEAR, CONLOC, CONCOUNTRY, CONSTATE, CONCITY

Semantic Rule 6:

Each conference has multiple chairs and conference organizations.

1. Entity(s): conference, chairs, conference organization
2. Attributes:
    None provided in semantic rule.
3. Entity Identifier:
    a. conference: CON#, chosen in semantic rule 5.
    b. chairs: CHAIR#, chosen in semantic rule 8.
    c. conference organization: CONORG#, chosen in semantic rule 7.
4. MVD: CON# ->-> CHAIR#, CONORG#

Semantic Rule 7:

Each conference organization has only one name and relationship.

1. Entity(s): conference organization
2. Attributes:
    a. name = CONORGNAME
    b. relationship = CONORGRELATION
3. Entity Identifier:
    a. conference organization = CONORG#, artificial identifier created because no provided attributes sufficiently identify the entity conference organization.

4. FD: CONORG# -> CONORGNAME, CONORGRELATION

Semantic Rule 8:

Each chair has only one name, type, and organization name.

Entity(s): chair

1. Attributes:
    a. name = CHAIRNAME
    b. type = CHAIRTYPE
    c. organization name = CHAIRORGNAME
2. Entity Identifier:
    a. chair = CHAIR#, artificial identifier created because no provided attributes sufficiently identify the entity chair.
3. FD: CHAIR# -> CHAIRNAME, CHAIRTYPE, CHAIRORGNAME

Semantic Rule 9:

Each call for papers has only one conference, secretariat, and call for papers body.

1. Entity(s): call for papers, conference, secretariat
2. Attributes:
    a. call for papers body = CALLFORBODY
3. Entity Identifier:
    a. call for papers = CALLFOR#, artificial identifier created because no attributes are provided for the entity call for papers.
    b. conference: CON#, chosen in semantic rule 5.
    c. secretariat: SEC# chosen in semantic rule 12.
4. FD: CALLFOR# -> CON#, SEC#, CALLFORBODY

Semantic Rule 10:

Each call for papers has multiple topics and deadlines.

1. Entity(s): call for papers, deadline
2. Attributes:
    a. topic = CALLFORTOPIC
3. Entity Identifier:
    a. call for papers: CALLFOR#, chosen in semantic rule 9.
    b. deadline: DEADLINE#, chosen in semantic rule 11.
4. MVD: CALLFOR# ->-> CALLFORTOPIC, DEADLINE#

Semantic Rule 11:

Each deadline has only one deadline label, year, month, and day.

1. Entity(s): deadline
2. Attributes:
    a. deadline label = DEADLABEL
    b. year = DEADYEAR
    c. month = DEADMONTH
    d. day = DEADDAY
3. Entity Identifier:
    a. deadline = DEADLINE#, artificial identifier created because no provided attributes sufficiently identify the entity deadline.
5. FD: DEADLINE# -> DEADLABEL, DEADYEAR, DEADMONTH, DEADDAY

Semantic Rule 12:

Each secretariat has only one title, email, fax, phone number, address heading, country, state, city, street, and postal code.

1. Entity(s): secretariat
2. Attributes:
    a. title = SECTITLE
    b. email = SECEMAIL
    c. fax = SECFAX
    d. phone number = SECPHONE
    e. address heading = SECADDR
    f. country = SECCOUNTRY
    g. state = SECSTATE
    h. city = SECCITY
    i. street = SECSTREET
    j. postal code = SECZIP
3. Entity Identifier:
    a. secretariat = SEC#, artificial identifier created because no provided attributes sufficiently identify the entity secretariat.
4. FD: SEC# -> SECTITLE, SECEMAIL, SECFAX, SECPHONE, SECADDR, SECCOUNTRY, SECSTATE, SECCITY, SECSTREET, SECZIP

Semantic Rule 13:

Each scientific article has only one title, paper body, and paper number.

1. Entity(s): scientific article,
2. Attributes:
    a. title = ARTTITLE
    b. paper body = ARTBODY
    c. paper number = ARTPAGE#
3. Entity Identifier:
    a. scientific article = ART#, artificial identifier created because no provided attributes sufficiently identify the entity scientific article.
4. FD: ART# -> ARTTITLE, ARTBODY, ARTPAGE#

Semantic Rule 14:

Each scientific article has multiple authors, topics, keywords, and references.

1. Entity(s): scientific article, reference
2. Attributes:
    a. author = ARTAUTH
    b. topics = ARTTOPIC
    c. keyword = ARTKEY
3. Entity Identifier:
    a. scientific article: ART#, chosen in semantic rule 13.
    b. reference: REF#, chosen in semantic rule 15.
4. MVD: ART# ->-> ARTAUTH, ARTTOPIC, ARTKEY, REF#

Semantic Rule 15:

Each reference has only one title, type, and reference body.

1. Entity(s): reference
2. Attributes:
    a. title = REFTITLE
    b. type = REFTYPE
    c. reference body = REFBODY
3. Entity Identifier:

    a. reference = REF#, artificial identifier created because no provided attributes sufficiently identify the entity reference.
4. FD: REF# -> REFTITLE, REFTYPE, REFBODY

Semantic Rule 16:

Each reference has multiple authors.

1. Entity(s): reference
2. Attributes:
    a. author = REFATHR
3. Entity Identifier:
    a. reference: REF#, chosen in semantic rule 15.
4. MVD: REF# ->-> REFATHR

Semantic Rule 17:

Each event has only one start year, start month, start day, end year, end month, end day, title, event country, event location body, event body, contact title, and contact body.

1. Entity(s): event
2. Attributes:
    a. start year = EVNTSYEAR
    b. start month = EVNTSMONTH
    c. start day = EVNTSDAY
    d. end year = EVNTEYEAR
    e. end month = EVNTEMONTH
    f. end day = EVNTEDAY
    g. title = EVNTTITLE
    h. event country = EVNTCOUNTRY
    i. event location body = EVNTLOCBODY
    j. event body = EVNTBODY
    k. contact title = EVNTCONTITLE
    l. contact body = EVNTCONBODY
3. Entity Identifier:
    a. event = EVNT#, artificial identifier created because no provided attributes sufficiently identify the entity event.
4. FD: EVNT# -> EVNTSYEAR, EVNTSMONTH, EVNTSDAY, EVNTEYEAR, EVNTEMONTH, EVNTEDAY, EVNTTITLE, EVNTCOUNTRY, EVNTLOCBODY, EVNTBODY, EVNTCONTITLE, EVNTCONBODY

Semantic Rule 18:

Each event has multiple sponsoring organizations.

1. Entity(s): event
2. Attributes:
    a. sponsoring organization = EVNTSPONSOR
3. Entity Identifier:
    a. event: EVNT#, chosen in semantic rule 17.
4. MVD: EVNT# ->-> EVNTSPONSOR

Semantic Rule 19:

Each job has only one position, job country, job state, job city, number of references required, organization name, application type, job status, job body, contact title, contact body, and salary.

1. Entity(s): job
2. Attributes:

   a. position = JOBPOSITION
   b. job country = JOBCOUNTRY
   c. job state = JOBSTATE
   d. job city = JOBCITY
   e. number of references required = JOBREFREQ#
   f. organization name = JOBORGNAME
   g. application type = JOBAPPTYPE
   h. job status = JOBSTATUS
   i. job body = JOBBODY
   j. contact title = JOBCONTITLE
   k. contact body = JOBCONBODY
   l. salary = JOBSALARY
3. Entity Identifier:
   a. job = JOB#, artificial identifier created because no provided attributes sufficiently identify the entity job.
4. FD: JOB# -> JOBPOSITION, JOBCOUNTRY, JOBSTATE, JOBCITY, JOBREFREQ#, JOBORGNAME, JOBAPPTYPE, JOBSTATUS, JOBBODY, JOBCONTITLE, JOBCONBODY, JOBSALARY

Semantic Rule 20:

Each job has multiple qualifications and job deadlines.

1. Entity(s): job, job qualification, job deadline
2. Attributes:
   None provided in semantic rule.
3. Entity Identifier:
   a. job: JOB#, chosen in semantic rule 19.
   b. job qualification: JOBQUAL#, chosen in semantic rule 21.
   c. job deadline: JOBDEAD#, chosen in semantic rule 22.
4. MVD: JOB# ->-> JOBQUAL#, JOBDEAD#

Semantic Rule 21:

Each job qualification has only one qualification label and qualification value.

1. Entity(s): job qualification
2. Attributes:
   a. qualification label = JOBQUALLABEL
   b. qualification value = JOBQUALVAL
3. Entity Identifier:
   a. job qualification = JOBQUAL#, artificial identifier created because no provided attributes sufficiently identify the entity job qualification.
4. FD: JOBQUAL# -> JOBQUALLABEL, JOBQUALVAL

Semantic Rule 22:

Each job deadline has only one deadline label, year, month, and day.

1. Entity(s): job deadline
2. Attributes:
   a. deadline label = JOBDEADLABEL
   b. year = JOBDEADYEAR
   c. month = JOBDEADMONTH
   d. day = JOBDEADDAY
3. Entity Identifier:

   a. job qualification = JOBDEAD#, artificial identifier created because no provided attributes sufficiently identify the entity job deadline.
4. FD: JOBDEAD# -> JOBDEADLABEL, JOBDEADYEAR, JOBDEADMONTH, JOBDEADDAY

Semantic Rule 23:
Each intern has only one name, graduating year, country from, state from, city from, degree type, degree title, employment status, post-graduation plans, and intern description body.

1. Entity(s): intern
2. Attributes:
   a. name = INTNAME
   b. graduating year = INTGRADYEAR
   c. country from = INTCOUNTRY
   d. state from = INTSTATE
   e. city from = INTCITY
   f. degree type = INTDEGTYPE
   g. degree title = INTDEGTITLE
   h. intern description body = INTBODY
3. Entity Identifier:
   a. intern = INT#, artificial identifier created because no provided attributes sufficiently identify the entity intern.
4. FD: INT# -> INTNAME, INTGRADYEAR, INTCOUNTRY, INTSTATE, INTCITY, INTDEGTYPE, INTDEGTITLE, INTBODY

II.2. List of Attributes

Table 1 shows the attributes that were derived from the semantic rules. The first column contains the name chosen to identify a given attribute. The description column contains a description of the attribute that has been named. The example column provides a case insensitive example of the attribute as it could be stored in the database.

Attribute	Description	Example
ART#	Artificial and unique number identifying a scientific article	42
ARTAUTH	Scientific article author	Ray Hashemi
ARTBODY	Scientific article contents	The Monte-Carlo…
ARTKEY	Scientific article keyword	Prediction Power
ARTPAGE#	Scientific article starting page in an issue	25
ARTTITLE	Scientific article title	Prediction Capability of Neural Networks Trained in Monte-Carlo Paradigm
ARTTOPIC	Scientific article topic	Machine Learning
CALLFOR#	Artificial and unique number identifying a call for papers	1
CALLFORBODY	Call for papers body	SAC ’93 is the annual conference of the ACM…
CALLFORTOPIC	Call for papers topic of interest	Geometric and topological domain

CHAIR#	Artificial and unique number identifying a conference chair	8
CHAIRNAME	Conference chair name	Joshua Turner
CHAIRORGNAME	Conference chair organization name	Rensselaer
CHAIRTYPE	Conference chair type	co-chair
CON#	Artificial and unique number identifying a conference	5
CONCITY	Conference location city	Indianapolis
CONCOUNTRY	Conference location country	USA
CONEDAY	Conference end day	16
CONEYEAR	Conference end year	1993
CONLOC	Conference location name	Indiana Convention Center
CONORG#	Artificial and unique number identifying a conference organization	7
CONORGNAME	Conference organization name	ACM
CONORGRELATION	Conference organization's relationship to conference	Co-sponsor
CONSDAY	Conference start day	14
CONSMONTH	Conference start month	February
CONSTATE	Conference location state	Indiana
CONSYEAR	Conference start year	1993
CONTITLE	Conference title	Symposium on Applied Computing (SAC '93)
DEADDAY	Call for papers deadline day	1
DEADLABEL	Call for papers deadline label	Abstract Due
DEADLINE#	Artificial and unique number identifying a call for papers deadline	9
DEADMONTH	Call for papers deadline month	September
DEADYEAR	Call for papers deadline year	1992
EVNT#	Artificial and unique number identifying an event	2
EVNTBODY	Event body	Mandrid…
EVNTCONBODY	Event remaining contact body	BG, E-28046 Madrid, Spain; fax: (+34-) …
EVNTCONTITLE	Event contact title	Grupo Geyseco, IFIP '92, Maurico Legendre 4
EVNTCOUNTRY	Event location country	Spain
EVNTEDAY	Event end day	11
EVNTEMONTH	Event end month	September
EVNTEYEAR	Event end year	1992
EVNTLOCBODY	Event remaining location body	Madrid

EVNTSDAY	Event start day	7
EVNTSMONTH	Event start month	September
EVNTSPONSOR	Event organizational sponsor	International Federation for Information Processing
EVNTSYEAR	Event start year	1992
EVNTTITLE	Event title	IFIP Congress 1992: 12th World Computer Congress
INT#	Artificial and unique number identifying an intern	4
INTBODY	Intern description body	Ashlee Wilcox majored in elementary education at…
INTCITY	Intern city of origin	Greenville
INTCOUNTRY	Intern country of origin	USA
INTDEGTITLE	Intern degree title	Communication Sciences and Disorders
INTDEGTYPE	Intern degree type	MS
INTGRADYEAR	Intern graduation year	2015
INTNAME	Intern name	Ashlee Wilcox
INTSTATE	Intern state of origin	SC
ISSUE#	Issue number	345
ISSUEDAY	Issue day published	15
ISSUEMONTH	Issue month published	June
ISSUEYEAR	Issue year published	1992
JOB#	Artificial and unique number identifying a job	3
JOBAPPTYPE	Job application type (should be submit or contact)	submit
JOBBODY	Job body contents	Vassar College is committed to building a strong…
JOBCITY	Job city	Poughkeepsie
JOBCONBODY	Job remaining contact body	Box 252m Vassar College, Poughkeepsie, NY, 12501…
JOBCONTITLE	Job contact title	Nancy M. Ide, Chair, Department of Computer Science
JOBCOUNTRY	Job country	US
JOBDEAD#	Artificial and unique number identifying a job deadline	16
JOBDEADDAY	Job deadline day	25
JOBDEADLABEL	Job deadline label	Review of Applications
JOBDEADMONTH	Job deadline month	April
JOBDEADYEAR	Job deadline year	1992
JOBORGNAME	Job organization name	Vassar College
JOBPOSITION	Job title	Visiting Assistant Professor
JOBQUAL#	Artificial and unique number identifying a job qualification	15

JOBQUALLABEL	Job qualification label	Degree Required
JOBQUALVALUE	Job qualification value	PHD in computer science
JOBREFREQ#	Job number of references required	3
JOBSALARY	Job salary amount or status	$50,225-$66,625
JOBSTATE	Job state	NY
JOBSTATUS	Job tenure or nontenure track status	nontenure
JORNTITLE	Journal title	The Journal of Computing for Professions (JCP)
PUBFREQ	Journal publication frequency	Bi-monthly
REF#	Artificial and unique number identifying a reference	12
REFATHR	Article reference author	Hertz J.
REFBODY	Article reference body	Addison-Wesley, Redwood City, Ca., 1991, pp.145-156
REFTITLE	Article reference title	Introduction to the Theory of Neural Computation
REFTYPE	Article reference type	Book
SEC#	Artificial and unique number identifying a secretariat	10
SECADDR	Secretariat address heading	Design Research Center, CII7015 Rensselaer Polytechnic Institute
SECCITY	Secretariat address city	Troy
SECCOUNTRY	Secretariat address country	USA
SECEMAIL	Secretariat email	mjohnson@rdrc.rpi.edu
SECFAX	Secretariat fax	(518) 276-2702
SECPHONE	Secretariat phone	(518) 276-6751
SECSTATE	Secretariat address state	NY
SECTITLE	Secretariat title	Mary Johnson
SECZIP	Secretariat address zip	12180-3590
SEXSTREET	Secretariat address street	Rensselaer Polytechnic Institute
VOL#	Issue volume number	5

Table 1– Attribute Names, Descriptions, and Examples

II.3. List of Dependencies

The following is a list of functional and multivalued dependencies that were determined from the semantic rules. The left-hand side (before the -> arrow symbol) of each dependency is the determinant. The right-hand side of each dependency is the value or values that are functionally or multi valued dependent on the determent(s) [3]. In parenthesis after each dependency is the semantic rule from which they were derived, abbreviated in the form SRi where i is equal to the semantic rule number from the semantic rule list in section **II**.

1. JORNTITLE -> PUBFREQ (SR1)
2. JORNTITLE ->-> ISSUE# (SR2)

3. ISSUE # -> VOL#, ISSUEMONTH, ISSUEDAY, ISSUEYEAR (SR3)
4. ISSUE# ->-> ART#, CALLFOR#, EVNT#, JOB#, INT# (SR4)
5. CON# -> CONTITLE, CONSDAY, CONEDAY, CONSMONTH, CONEMONTH, CONSYEAR, CONEYEAR, CONLOC, CONCOUNTRY, CONSTATE, CONCITY (SR5)
6. CON# ->-> CHAIR#, CONORG# (SR6)
7. CONORG# -> CONORGNAME, CONORGRELATION (SR7)
8. CHAIR# -> CHAIRNAME, CHAIRTYPE, CHAIRORGNAME (SR8)
9. CALLFOR# -> CON#, SEC#, CALLFORBODY (SR9)
10. CALLFOR# ->-> CALLFORTOPIC, DEADLINE# (SR10)
11. DEADLINE# -> DEADLABEL, DEADYEAR, DEADMONTH, DEADDAY (SR11)
12. SEC# -> SECTITLE, SECEMAIL, SECFAX, SECPHONE, SECADDR, SECCOUNTRY, SECSTATE, SECCITY, SECSTREET, SECZIP (SR12)
13. ART# -> ARTTITLE, ARTBODY, ARTPAGE# (SR13)
14. ART# ->-> ARTAUTH, ARTTOPIC, ARTKEY, REF# (SR14)
15. REF# -> REFTITLE, REFTYPE, REFBODY (SR15)
16. REF# ->-> REFATHR (SR16)
17. EVNT# -> EVNTSYEAR, EVNTSMONTH, EVNTSDAY, EVNTEYEAR, EVNTEMONTH, EVNTEDAY, EVNTTITLE, EVNTCOUNTRY, EVNTLOCBODY, EVNTBODY, EVNTCONTITLE, EVNTCONBODY (SR17)
18. EVNT# ->-> EVNTSPONSOR (SR18)
19. JOB# -> JOBPOSITION, JOBCOUNTRY, JOBSTATE, JOBCITY, JOBREFREQ#, JOBORGNAME, JOBAPPTYPE, JOBSTATUS, JOBBODY, JOBCONTITLE, JOBCONBODY, JOBSALARY (SR19)
20. JOB# ->-> JOBQUAL#, JOBDEAD# (SR20)
21. JOBQUAL# -> JOBQUALLABEL, JOBQUALVAL (SR21)
22. JOBDEAD# -> JOBDEADLABEL, JOBDEADYEAR, JOBDEADMONTH, JOBDEADDAY (SR22)
23. INT# -> INTNAME, INTGRADYEAR, INTCOUNTRY, INTSTATE, INTCITY, INTDEGTYPE, INTDEGTITLE, INTBODY (SR23)

III. Universal Relation

Figure 1 shows the universal relation, R1 as an initial FD diagram. The primary key of the diagram is JORNTITLE. JORNTITLE was chosen as the primary key because every attribute of R1 can be reached from JORNTITLE by following the arrows created by FDs and MVDs [1]. A primary key is the chosen candidate key, and there can only be one primary key in a relation [4]. Each rectangle represents an attribute, each rectangle around other rectangles represent a collective determinant, and each single arrow represents a functional dependency listed in section **V**. A MVD is represented by two arrows pointing to a block. This is demonstrated in the center of the diagram where JORNTITLE points to ISSUE# with two arrows, representing the MVD: JORNTITLE ->-> ISSUE#.

III.1. Reduction

The universal relation, R1 portrayed in Figure 1 has no redundancies that can be removed, thus it is already simplified. If R1 did have redundancies, it would require simplification/reduction [3]. There are two algorithms used to reduce a universal relation diagram: the orphan rule and the transitive rule. The orphan rule states that if we have the FD x,

y -> z and we have another FD x -> z, we remove the x, y-> z FD and maintain the more simple, inner FD of x -> y that does not leave y orphaned, because the key always determines a non-key attribute. The transitive rules states that if we have the FD x -> y -> z and we also have the FD x -> z, we delete the FD x -> z since it is transitively dependent on x from the x -> y -> z FD. Transitive dependency is where we can conclude that x -> z when we have x -> y -> z, we say that y is transitively dependent on z [3].

III.2. 1NF

If your enterprise desired a database design that was only simplified to first normal form (1NF), then the universal relation R1 in Figure 1 would be the results. For a relation to be in 1NF, all the attributes of the relation must be atomic [2]. A relation has five properties that distinguish it from a table. The first of these properties is that all the attribute values of a relation are atomic. Atomic mean that each piece of attribute data is not decomposable [4]. Since R1 is a relation, and a relation's attribute values are atomic, R1 is in 1NF [2].

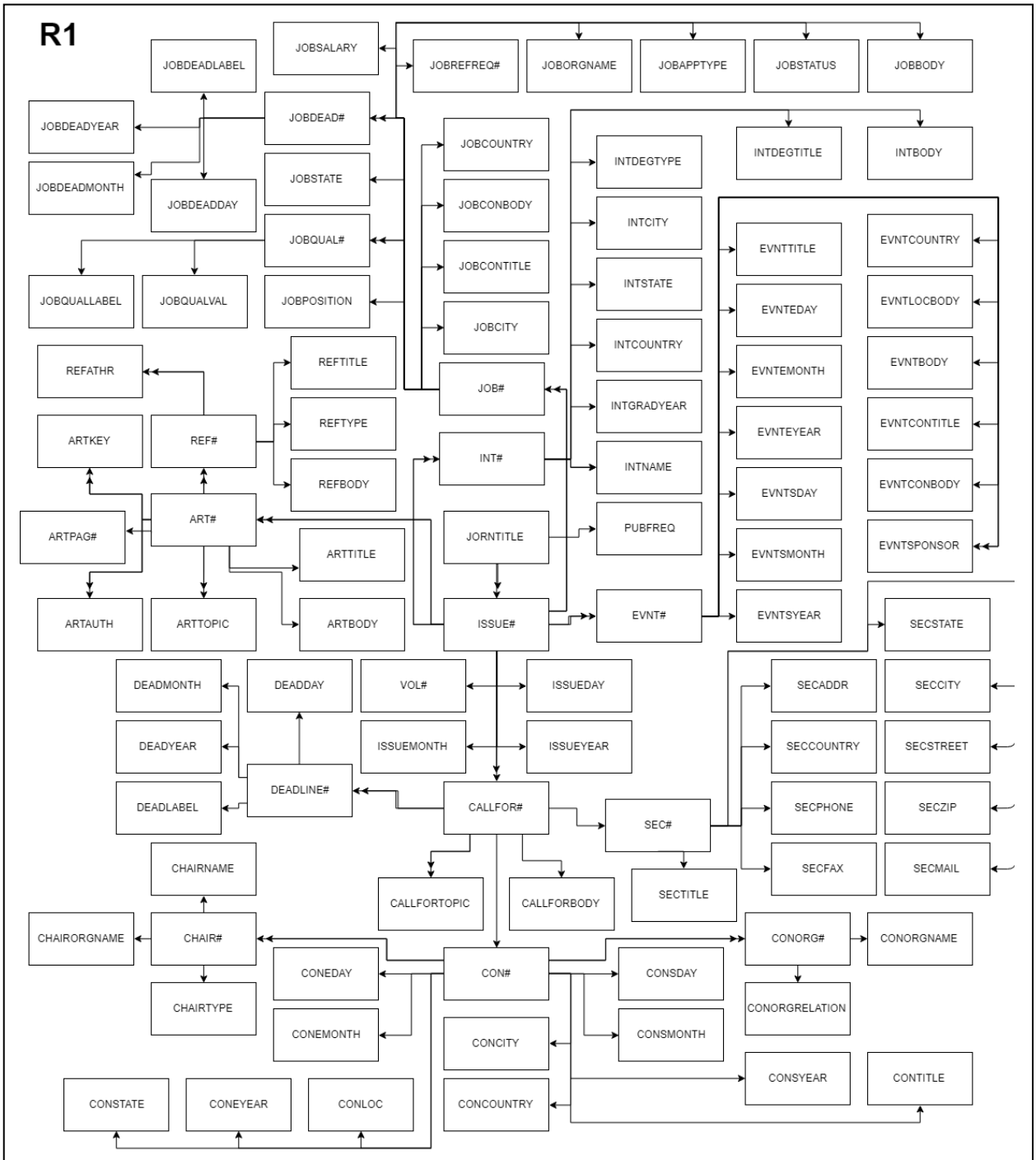

Figure 1 – R1: Universal Relation Diagram, 1NF, and 2NF

III.3. 2NF

For a relation to be in second normal form (2NF), the relation must both be in 1NF and every non-key attribute must be fully functionally dependent on the primary key. A non-key attribute is any attribute in a relation that is not participating in the primary key [2]. If and only if y is functionally dependent on x and not a subset of x, then y is fully functionally dependent (FFD) on x [3]. The relation universal relation R1 in Figure 1 is in 3NF.

III.4. 3NF

R1 is in 1NF and 2NF without normalization, however R1 requires normalization to reach 3NF. A relation is in 3NF if every non-key attribute is not transitively dependent on the primary key [2]. The process of normalization involves splitting a relation into sub-relations that are in the desired normal form. Each of the sub-relations must share an attribute that acts as a foreign key which is necessary for maintaining a bridge between relations [2]. A foreign key is an attribute in a relation that is not the primary key of that relation, but whose data comes from a primary domain. A primary domain is the domain from which a primary key has been derived [4].

Relation R2, split between Figures 2.1 and 2.2 is in 3NF and is the result of normalizing R1. We derive our sub relations when normalizing R1 to R2 by splitting into relations without any transitive dependencies. By avoiding transitive dependencies, we ensure that every non-key attribute is not transitively dependent on the primary key, thus satisfying the conditions of a relation in 3NF.

III.5. BCNF

A relation is in Boyce-Codd Normal Form (BCNF) if every determinant of that relation is a candidate key [5]. Relation R2 split between Figures 2.1 and 2.2 is in 3NF, and BCNF since every determinant of R2 is a candidate key. Thus, R2 doesn’t need any additional normalization to reach BCNF.

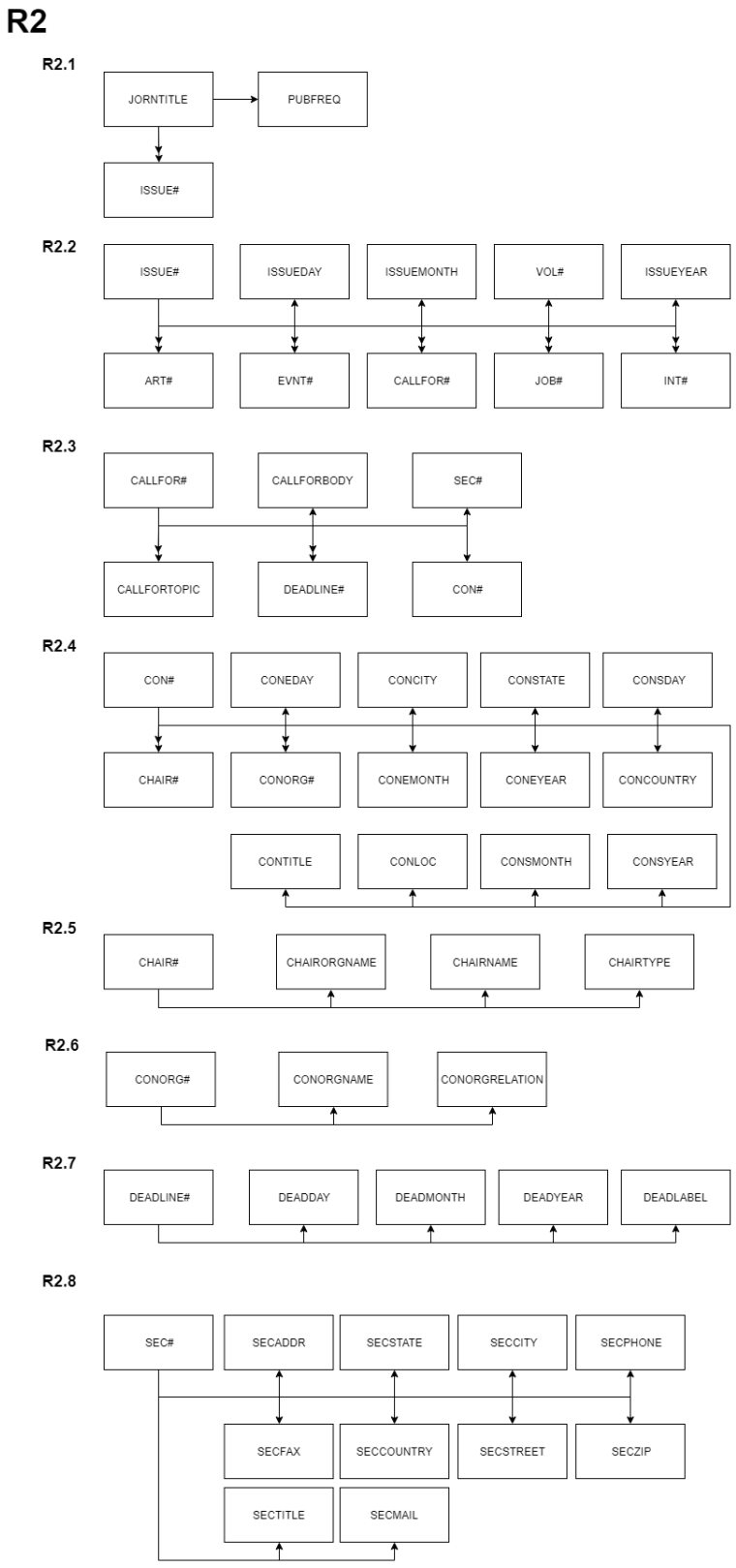

Figure 2.1 – R2: 3NF and BCNF (Part 1)

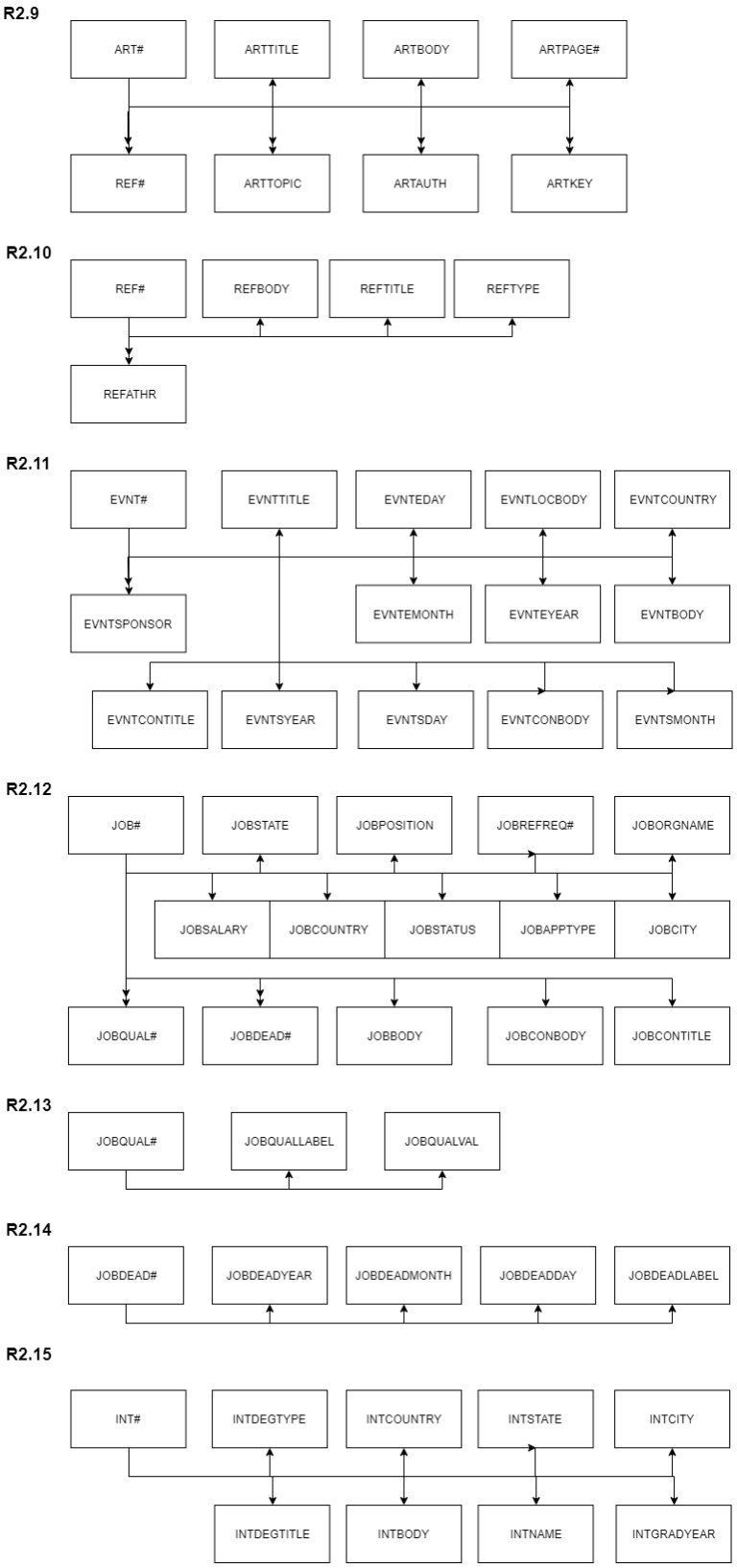

Figure 2.2 – R2: 3NF and BCNF (Part 2)

III.6. 4NF

We previously stated the conditions for a relation R to be in 4NF. Let's reiterate them: if whenever there is a non-trivial multi-view dependency (MVD), if x ->-> y, then x is a super key of R. The best method to normalize relation R2 in Figures 2.1 and 2.2 to 4NF is to make any sub relation's MVDs trivial MVDs. We can easily do this by isolating the MVD into a whole key sub relation [6]. A whole key relation is when a relation is made up entirely of a primary key [5]. The result of normalizing R2 into 4NF is R3, and is broken into Figures 3.1, 3.2, 3.3, and 3.4.

For example, during normalization from R2 to R3 we take R2.1's MVD: JORNTITLE ->-> ISSUE#, and FD: JORNTITLE -> ISSUEDAY, ISSUEMONTH, VOL#, ISSUEYEAR, and break R2.1 into sub relations R3.2 and R3.3. Where R3.2 is a whole key relation only consisting of the MVD: JORNTITLE ->-> ISSUE#, and R3.3 only contains the FD: JORNTITLE -> ISSUEDAY, ISSUEMONTH, VOL#, ISSUEYEAR.

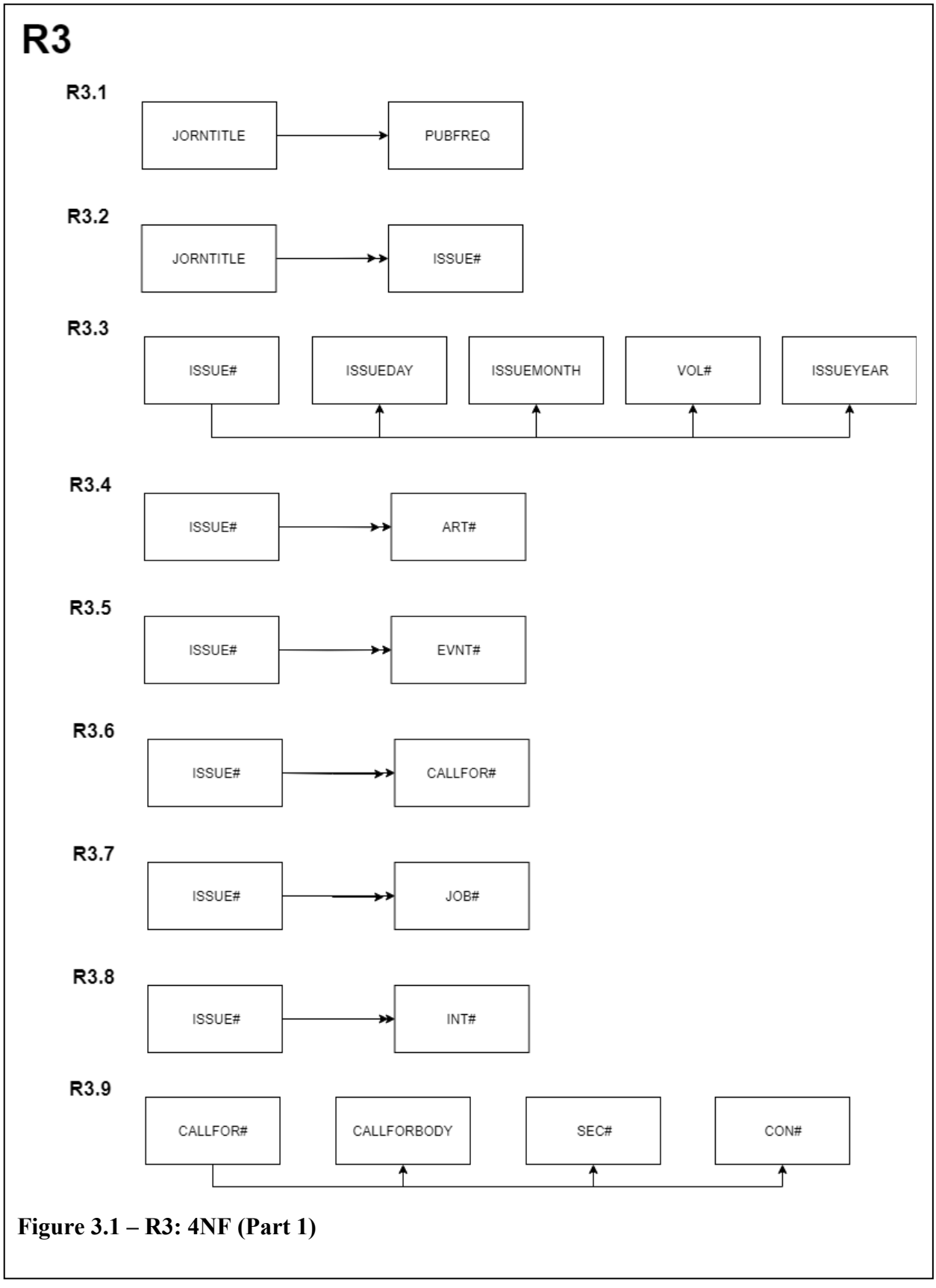

Figure 3.1 – R3: 4NF (Part 1)

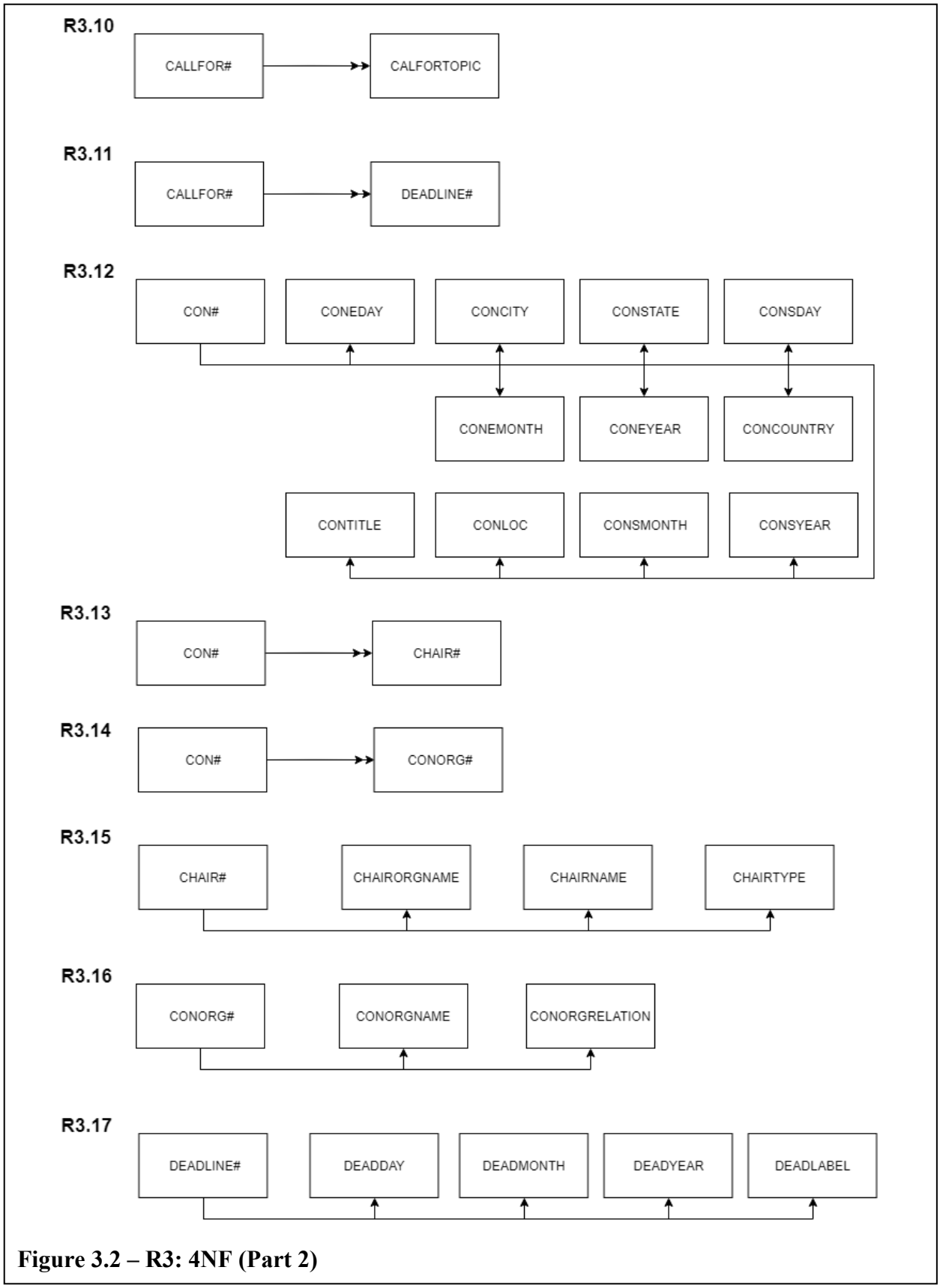

Figure 3.2 – R3: 4NF (Part 2)

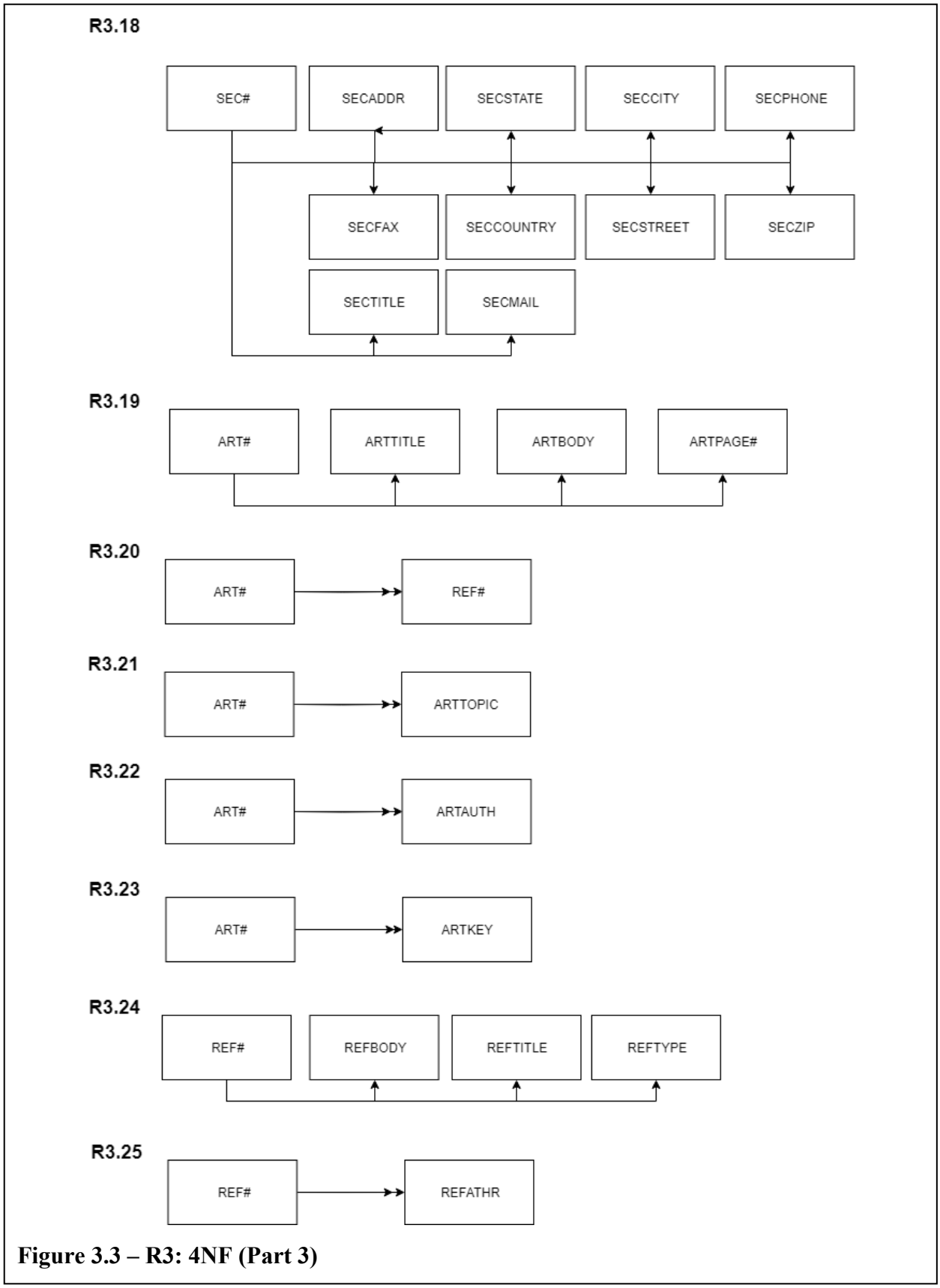

Figure 3.3 – R3: 4NF (Part 3)

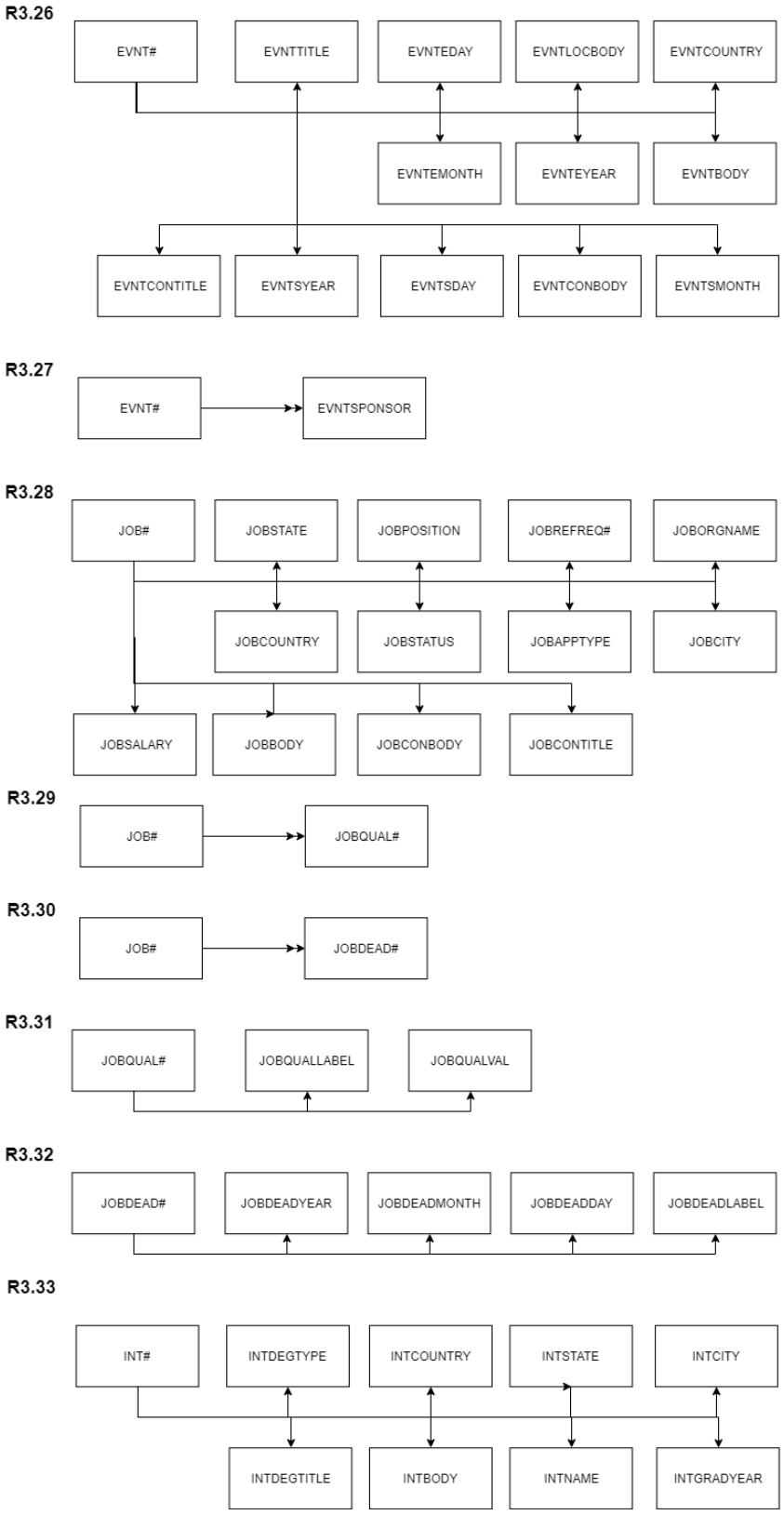

Figure 3.4 – R3: 4NF (Part 4)

IV. Final Set of Relations

Table 2 contains the 33 relations that make up the final set of relations of our database. They are derived from relation R3, or the universal relation normalized into 4NF. In Table 2, the Relation column shows the sub-relations of R3 as intensions of a relation. The dependency column shows the FDs or MVDs of the relation.

Relation	Dependency
R3.1(JORNTITLE, PUBFREQ)	JORNTITLE -> PUBFREQ
R3.2(JORNTITLE, ISSUE#)	JORNTITLE ->-> ISSUE#
R3.3(ISSUE#, ISSUEDAY, ISSUEMONTH, VOL#, ISSUEYEAR)	ISSUE# -> ISSUEDAY, ISSUEMONTH, VOL#, ISSUEYEAR
R3.4(ISSUE#, ART#)	ISSUE ->-> ART#
R3.5(ISSUE#, EVNT#)	ISSUE# ->-> EVNT#
R3.6(ISSUE#, CALLFOR#)	ISSUE# ->-> CALLFOR#
R3.7(ISSUE#, JOB#)	ISSUE# ->-> JOB#
R3.8(ISSUE#, INT#)	ISSUE# ->-> INT#
R3.9(CALLFOR#, CALLFORBODY, SEC#, CON#)	CALLFOR# -> CALLFORBODY, SEC#, CON#
R3.10(CALLFOR#, CALFORTOPIC)	CALLFOR# ->-> CALFORTOPIC
R3.11(CALLFOR#, DEADLINE#)	CALLFOR# ->-> DEADLINE#
R3.12(CON#, CONEDAY, CONCITY, CONSTATE, CONSDAY, CONEMONTH, CONEYEAR, CONCOUNTRY, CONTITLE, CONLOC, CONSMONTH, CONSYEAR)	CON# -> CONEDAY, CONCITY, CONSTATE, CONSDAY, CONEMONTH, CONEYEAR, CONCOUNTRY, CONTITLE, CONLOC, CONSMONTH, CONSYEAR
R3.13(CON#, CHAIR#)	CON# ->-> CHAIR#
R3.14(CON#, CONORG#)	CON# ->-> CONORG#
R3.15(CHAIR#, CHAIRORGNAME, CHAIRNAME, CHAIRTYPE)	CHAIR# -> CHAIRORGNAME, CHAIRNAME, CHAIRTYPE
R3.16 (CONORG#, CONORGNAME, CONORGRELATION)	CONORG# -> CONORGNAME, CONORGRELATION
R3.17 (DEADLINE#, DEADDAY, DEADMONTH, DEADYEAR, DEADLABEL)	DEADLINE# -> DEADDAY, DEADMONTH, DEADYEAR, DEADLABEL
R3.18(SEC#, SECADDR, SECSTATE, SECCITY, SECPHONE, SECFAX, SECCOUNTRY, SECSTREET, SECZIP, SECTITLE, SECMAIL)	SEC# -> SECADDR, SECSTATE, SECCITY, SECPHONE, SECFAX, SECCOUNTRY, SECSTREET, SECZIP, SECTITLE, SECMAIL
R3.19 (ART#, ARTTITLE, ARTBODY, ARTPAGE#)	ART# -> ARTTITLE, ARTBODY, ARTPAGE#
R3.20(ART#, REF#)	ART# ->-> REF#
R3.21(ART#, ARTTOPIC)	ART# ->-> ARTTOPIC

R3.22(ART#, ARTAUTH)	ART# ->-> ARTAUTH
R3.23(ART#, ARTKEY)	ART# ->-> ARTKEY
R3.24(REF#, REFBODY, REFTITLE, REFTYPE)	REF# -> REFBODY, REFTITLE, REFTYPE
R3.25(REF#, REFATHR)	REF# ->-> REFATHR
R3.26(EVNT#, EVNTTITLE, EVNTEDAY, EVNTLOCBODY, EVNTCOUNTRY, EVNTEMONTH, EVNTEYEAR, EVNTBODY, EVNTCONTITLE, EVNTSYEAR, EVNTSDAY, EVNTCONBODY, EVNTSMONTH)	EVNT# -> EVNTTITLE, EVNTEDAY, EVNTLOCBODY, EVNTCOUNTRY, EVNTEMONTH, EVNTEYEAR, EVNTBODY, EVNTCONTITLE, EVNTSYEAR, EVNTSDAY, EVNTCONBODY, EVNTSMONTH
R3.27(EVNT#, EVNTSPONSOR)	EVNT# ->-> EVNTSPONSOR
R3.28(JOB#, JOBSTATE, JOBPOSITION, JOBREFREQ#, JOBORGNAME, JOBCOUNTRY, JOBSTATUS, JOBAPPTYPE, JOBCITY, JOBSALARY, JOBBODY, JOBCONBODY, JOBCONTITLE)	JOB# -> JOBSTATE, JOBPOSITION, JOBREFREQ#, JOBORGNAME, JOBCOUNTRY, JOBSTATUS, JOBAPPTYPE, JOBCITY, JOBSALARY, JOBBODY, JOBCONBODY, JOBCONTITLE
R3.29(JOB#, JOBQUAL#)	JOB# ->-> JOBQUAL#
R3.30(JOB#, JOBDEAD#)	JOB# ->-> JOBDEAD#
R3.31(JOBQUAL#, JOBQUALLABEL, JOBQUALVAL)	JOBQUAL# -> JOBQUALLABEL, JOBQUALVAL
R3.32(JOBDEAD#, JOBDEADYEAR, JOBDEADMONTH, JOBDEADDAY, JOBDEADLABEL)	JOBDEAD# -> JOBDEADYEAR, JOBDEADMONTH, JOBDEADDAY, JOBDEADLABEL

Table 2 – Intension of Relations and Relation Dependencies

References

[1] Ray Hashemi, Lecture #2, January 10, 2018.
[2] Ray Hashemi, Lecture #10, February 12, 2018.
[3] Ray Hashemi, Lecture #9, February 7, 2018.
[4] Ray Hashemi, Lecture #4, January 22, 2018.
[5] Ray Hashemi, Lecture #11, February 14, 2018.
[6] Ray Hashemi, Lecture #12, February 19, 2018.
[7] Ray Hashemi, Lecture #5, February 27, 2018.

ATTACHMENTS

ATTACHMENTS.1: SQL Script for Table Creation and Data Population

```
-- -----------------------------------------------------
-- Remove any previous relations
-- -----------------------------------------------------
DROP SCHEMA IF EXISTS `r3` ;

-- -----------------------------------------------------
-- Create new schema, r3
-- -----------------------------------------------------
CREATE SCHEMA IF NOT EXISTS `r3` DEFAULT CHARACTER SET utf8 ;
USE `r3` ;

-- -----------------------------------------------------
-- Create the relations of r3 in order of foreign key dependencies
-- -----------------------------------------------------

-- -----------------------------------------------------
-- Create relation `r3`.`1`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`1` ;

CREATE TABLE IF NOT EXISTS `r3`.`1` (
  `JORNTITLE` VARCHAR(255) NOT NULL,
  `PUBFREQ` VARCHAR(45) NULL DEFAULT NULL,
  PRIMARY KEY (`JORNTITLE`),
  UNIQUE INDEX `JORNTITLE_UNIQUE` (`JORNTITLE` ASC))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`18`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`18` ;

CREATE TABLE IF NOT EXISTS `r3`.`18` (
  `SEC#` INT(11) NOT NULL AUTO_INCREMENT,
  `SECTITLE` VARCHAR(255) NULL DEFAULT NULL,
  `SECCOUNTRY` VARCHAR(45) NULL DEFAULT NULL,
  `SECSTATE` VARCHAR(25) NULL DEFAULT NULL,
  `SECCITY` VARCHAR(25) NULL DEFAULT NULL,
  `SECADDR` VARCHAR(255) NULL DEFAULT NULL,
  `SECZIP` VARCHAR(25) NULL DEFAULT NULL,
  `SECPHONE` VARCHAR(25) NULL DEFAULT NULL,
  `SECMAIL` VARCHAR(45) NULL DEFAULT NULL,
  `SECFAX` VARCHAR(25) NULL DEFAULT NULL,
  PRIMARY KEY (`SEC#`))
DEFAULT CHARACTER SET = utf8;
```

```
-- -----------------------------------------------------
-- Create relation `r3`.`12`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`12` ;

CREATE TABLE IF NOT EXISTS `r3`.`12` (
  `CON#` INT(11) NOT NULL AUTO_INCREMENT,
  `CONTITLE` VARCHAR(255) NULL DEFAULT NULL,
  `CONLOC` VARCHAR(45) NULL DEFAULT NULL,
  `CONCOUNTRY` VARCHAR(25) NULL DEFAULT NULL,
  `CONSTATE` VARCHAR(25) NULL DEFAULT NULL,
  `CONCITY` VARCHAR(25) NULL DEFAULT NULL,
  `CONSYEAR` INT(11) NULL DEFAULT NULL,
  `CONSMONTH` VARCHAR(25) NULL DEFAULT NULL,
  `CONSDAY` INT(11) NULL DEFAULT NULL,
  `CONEYEAR` INT(11) NULL DEFAULT NULL,
  `CONEMONTH` VARCHAR(25) NULL DEFAULT NULL,
  `CONEDAY` INT(11) NULL DEFAULT NULL,
  PRIMARY KEY (`CON#`),
  INDEX `CONSYEAR_index` (`CONSYEAR` ASC),
  INDEX `CONSMONTH_index` (`CONSMONTH` ASC),
  INDEX `CONSDAY_index` (`CONSDAY` ASC),
  INDEX `CONEYEAR_index` (`CONEYEAR` ASC),
  INDEX `CONEMONTH_index` (`CONEMONTH` ASC),
  INDEX `CONEDAY_index` (`CONEDAY` ASC))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`9`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`9` ;

CREATE TABLE IF NOT EXISTS `r3`.`9` (
  `CALLFOR#` INT(11) NOT NULL AUTO_INCREMENT,
  `CALLFORBODY` TEXT NULL DEFAULT NULL,
  `SEC#` INT(11) NULL,
  `CON#` INT(11) NULL,
  PRIMARY KEY (`CALLFOR#`),
  INDEX `SEC#_index` (`SEC#` ASC),
  INDEX `CON#_index` (`CON#` ASC),
  CONSTRAINT `SEC#`
    FOREIGN KEY (`SEC#`)
    REFERENCES `r3`.`18` (`SEC#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `CON#`
    FOREIGN KEY (`CON#`)
    REFERENCES `r3`.`12` (`CON#`)
    ON DELETE CASCADE
```

```
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`10`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`10` ;

CREATE TABLE IF NOT EXISTS `r3`.`10` (
  `CALLFOR#` INT(11) NOT NULL,
  `CALFORTOPIC` VARCHAR(255) NOT NULL,
  PRIMARY KEY (`CALLFOR#`, `CALFORTOPIC`),
  CONSTRAINT `CALLFOR#_Foreign1`
    FOREIGN KEY (`CALLFOR#`)
    REFERENCES `r3`.`9` (`CALLFOR#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`17`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`17` ;

CREATE TABLE IF NOT EXISTS `r3`.`17` (
  `DEADLINE#` INT(11) NOT NULL AUTO_INCREMENT,
  `DEADDAY` INT(11) NULL,
  `DEADMONTH` VARCHAR(12) NULL DEFAULT NULL,
  `DEADYEAR` INT(11) NULL,
  `DEADLABEL` VARCHAR(255) NULL DEFAULT NULL,
  PRIMARY KEY (`DEADLINE#`),
  INDEX `DEADDAY_index` (`DEADDAY` ASC),
  INDEX `DEADYEAR_index` (`DEADYEAR` ASC))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`11`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`11` ;

CREATE TABLE IF NOT EXISTS `r3`.`11` (
  `CALLFOR#` INT(11) NOT NULL,
  `DEADLINE#` INT(11) NOT NULL,
  INDEX `DEADLINE#_idx` (`DEADLINE#` ASC),
  PRIMARY KEY (`DEADLINE#`, `CALLFOR#`),
  CONSTRAINT `CALLFOR#_Foreign2`
    FOREIGN KEY (`CALLFOR#`)
```

```
    REFERENCES `r3`.`9` (`CALLFOR#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `DEADLINE#_Foreign`
    FOREIGN KEY (`DEADLINE#`)
    REFERENCES `r3`.`17` (`DEADLINE#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`15`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`15` ;

CREATE TABLE IF NOT EXISTS `r3`.`15` (
  `CHAIR#` INT(11) NOT NULL AUTO_INCREMENT,
  `CHAIRORGNAME` VARCHAR(255) NULL DEFAULT NULL,
  `CHAIRNAME` VARCHAR(45) NULL DEFAULT NULL,
  `CHAIRTYPE` VARCHAR(25) NULL DEFAULT NULL,
  PRIMARY KEY (`CHAIR#`))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`13`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`13` ;

CREATE TABLE IF NOT EXISTS `r3`.`13` (
  `CON#` INT(11) NOT NULL,
  `CHAIR#` INT(11) NOT NULL,
  PRIMARY KEY (`CON#`, `CHAIR#`),
  INDEX `CHAIR#_idx` (`CHAIR#` ASC),
  CONSTRAINT `CON#_Foreign1`
    FOREIGN KEY (`CON#`)
    REFERENCES `r3`.`12` (`CON#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `CHAIR#_Foreign1`
    FOREIGN KEY (`CHAIR#`)
    REFERENCES `r3`.`15` (`CHAIR#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`16`
```

```
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`16` ;

CREATE TABLE IF NOT EXISTS `r3`.`16` (
  `CONORG#` INT(11) NOT NULL AUTO_INCREMENT,
  `CONORGNAME` VARCHAR(255) NULL DEFAULT NULL,
  `CONORGRELATION` VARCHAR(45) NULL DEFAULT NULL,
  PRIMARY KEY (`CONORG#`))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`19`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`19` ;

CREATE TABLE IF NOT EXISTS `r3`.`19` (
  `ART#` INT(11) NOT NULL AUTO_INCREMENT,
  `ARTTITLE` VARCHAR(255) NULL DEFAULT NULL,
  `ARTBODY` TEXT NULL DEFAULT NULL,
  `ARTPAGE#` INT(11) NULL DEFAULT NULL,
  PRIMARY KEY (`ART#`))
DEFAULT CHARACTER SET = utf8;

-- -----------------------------------------------------
-- Create relation `r3`.`3`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`3` ;

CREATE TABLE IF NOT EXISTS `r3`.`3` (
  `ISSUE#` INT(11) NOT NULL,
  `ISSUEDAY` INT(11) NULL,
  `ISSUEMONTH` VARCHAR(12) NULL DEFAULT NULL,
  `VOL#` INT(11) NULL,
  `ISSUEYEAR` INT(11) NULL,
  PRIMARY KEY (`ISSUE#`),
  INDEX `ISSUEDAY_index` (`ISSUEDAY` ASC),
  INDEX `VOL#_index` (`VOL#` ASC),
  INDEX `ISSUEYEAR_index` (`ISSUEYEAR` ASC))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`2`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`2` ;

CREATE TABLE IF NOT EXISTS `r3`.`2` (
  `JORNTITLE` VARCHAR(255) NOT NULL,
  `ISSUE#` INT(11) NOT NULL,
```

```
  PRIMARY KEY (`JORNTITLE`, `ISSUE#`),
  INDEX `ISSUE#_idx` (`ISSUE#` ASC),
  CONSTRAINT `JORNTITLE_Foreign`
    FOREIGN KEY (`JORNTITLE`)
    REFERENCES `r3`.`1` (`JORNTITLE`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `ISSUE#_Foreign`
    FOREIGN KEY (`ISSUE#`)
    REFERENCES `r3`.`3` (`ISSUE#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;

-- -----------------------------------------------------
-- Create relation `r3`.`24`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`24` ;

CREATE TABLE IF NOT EXISTS `r3`.`24` (
  `REF#` INT(11) NOT NULL AUTO_INCREMENT,
  `REFBODY` VARCHAR(4000) NULL DEFAULT NULL,
  `REFTITLE` VARCHAR(255) NULL DEFAULT NULL,
  `REFTYPE` VARCHAR(12) NULL DEFAULT NULL,
  PRIMARY KEY (`REF#`))
DEFAULT CHARACTER SET = utf8;

-- -----------------------------------------------------
-- Create relation `r3`.`20`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`20` ;

CREATE TABLE IF NOT EXISTS `r3`.`20` (
  `ART#` INT(11) NOT NULL,
  `REF#` INT(11) NOT NULL,
  PRIMARY KEY (`ART#`, `REF#`),
  INDEX `REF#_Foreign_idx` (`REF#` ASC),
  CONSTRAINT `ART#_Foreign4`
    FOREIGN KEY (`ART#`)
    REFERENCES `r3`.`19` (`ART#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `REF#_Foreign`
    FOREIGN KEY (`REF#`)
    REFERENCES `r3`.`24` (`REF#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;
```

```
-- -----------------------------------------------------
-- Create relation `r3`.`21`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`21` ;

CREATE TABLE IF NOT EXISTS `r3`.`21` (
  `ART#` INT(11) NOT NULL,
  `ARTTOPIC` VARCHAR(255) NOT NULL,
  PRIMARY KEY (`ART#`, `ARTTOPIC`),
  CONSTRAINT `ART#_Foreign3`
    FOREIGN KEY (`ART#`)
    REFERENCES `r3`.`19` (`ART#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`22`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`22` ;

CREATE TABLE IF NOT EXISTS `r3`.`22` (
  `ART#` INT(11) NOT NULL,
  `ARTAUTH` VARCHAR(255) NOT NULL,
  PRIMARY KEY (`ART#`, `ARTAUTH`),
  CONSTRAINT `ART#_Foreign2`
    FOREIGN KEY (`ART#`)
    REFERENCES `r3`.`19` (`ART#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`23`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`23` ;

CREATE TABLE IF NOT EXISTS `r3`.`23` (
  `ART#` INT(11) NOT NULL,
  `ARTKEY` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`ART#`, `ARTKEY`),
  CONSTRAINT `ART#_Foreign1`
    FOREIGN KEY (`ART#`)
    REFERENCES `r3`.`19` (`ART#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;
```

```
-- -----------------------------------------------------
-- Create relation `r3`.`25`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`25` ;

CREATE TABLE IF NOT EXISTS `r3`.`25` (
  `REF#` INT(11) NOT NULL AUTO_INCREMENT,
  `REFATHR` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`REF#`, `REFATHR`),
  CONSTRAINT `REF#_Foreign2`
    FOREIGN KEY (`REF#`)
    REFERENCES `r3`.`24` (`REF#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;

-- -----------------------------------------------------
-- Create relation `r3`.`26`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`26` ;

CREATE TABLE IF NOT EXISTS `r3`.`26` (
  `EVNT#` INT(11) NOT NULL AUTO_INCREMENT,
  `EVNTTITLE` VARCHAR(255) NULL DEFAULT NULL,
  `EVNTBODY` TEXT NULL DEFAULT NULL,
  `EVNTCONTITLE` VARCHAR(255) NULL DEFAULT NULL,
  `EVNTCONBODY` VARCHAR(4000) NULL DEFAULT NULL,
  `EVNTCOUNTRY` VARCHAR(255) NULL DEFAULT NULL,
  `EVNTLOCBODY` VARCHAR(4000) NULL DEFAULT NULL,
  `EVNTSYEAR` INT(11) NULL DEFAULT NULL,
  `EVNTSMONTH` VARCHAR(12) NULL DEFAULT NULL,
  `EVNTSDAY` INT(11) NULL DEFAULT NULL,
  `EVNTEYEAR` INT(11) NULL DEFAULT NULL,
  `EVNTEMONTH` VARCHAR(12) NULL DEFAULT NULL,
  `EVNTEDAY` INT(11) NULL DEFAULT NULL,
  PRIMARY KEY (`EVNT#`))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`27`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`27` ;

CREATE TABLE IF NOT EXISTS `r3`.`27` (
  `EVNT#` INT(11) NOT NULL,
  `EVNTSPONSOR` VARCHAR(255) NOT NULL,
  PRIMARY KEY (`EVNT#`, `EVNTSPONSOR`),
  CONSTRAINT `EVNT#_Foreign1`
```

```
    FOREIGN KEY (`EVNT#`)
    REFERENCES `r3`.`26` (`EVNT#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`28`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`28` ;

CREATE TABLE IF NOT EXISTS `r3`.`28` (
  `JOB#` INT(11) NOT NULL AUTO_INCREMENT,
  `JOBPOSITION` VARCHAR(255) NULL DEFAULT NULL,
  `JOBORGNAME` VARCHAR(255) NULL DEFAULT NULL,
  `JOBBODY` TEXT NULL DEFAULT NULL,
  `JOBAPPTYPE` VARCHAR(25) NULL DEFAULT NULL,
  `JOBSTATUS` VARCHAR(25) NULL DEFAULT NULL,
  `JOBREFREQ#` INT(11) NULL DEFAULT NULL,
  `JOBCOUNTRY` VARCHAR(255) NULL DEFAULT NULL,
  `JOBSTATE` VARCHAR(45) NULL DEFAULT NULL,
  `JOBCITY` VARCHAR(255) NULL DEFAULT NULL,
  `JOBCONTITLE` VARCHAR(255) NULL DEFAULT NULL,
  `JOBCONBODY` TEXT NULL DEFAULT NULL,
  `JOBSALARY` VARCHAR(225) NULL DEFAULT NULL,
  PRIMARY KEY (`JOB#`))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`32`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`32` ;

CREATE TABLE IF NOT EXISTS `r3`.`32` (
  `JOBDEAD#` INT(11) NOT NULL AUTO_INCREMENT,
  `JOBDEADLABEL` VARCHAR(255) NULL DEFAULT NULL,
  `JOBDEADYEAR` INT(11) NULL DEFAULT NULL,
  `JOBDEADMONTH` VARCHAR(12) NULL DEFAULT NULL,
  `JOBDEADDAY` INT(11) NULL DEFAULT NULL,
  PRIMARY KEY (`JOBDEAD#`))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`30`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`30` ;
```

```
CREATE TABLE IF NOT EXISTS `r3`.`30` (
  `JOB#` INT(11) NOT NULL,
  `JOBDEAD#` INT(11) NOT NULL,
  PRIMARY KEY (`JOB#`, `JOBDEAD#`),
  INDEX `JOBDEAD#_idx` (`JOBDEAD#` ASC),
  CONSTRAINT `JOBDEAD#_Foreign`
    FOREIGN KEY (`JOBDEAD#`)
    REFERENCES `r3`.`32` (`JOBDEAD#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `JOB#_Foreign2`
    FOREIGN KEY (`JOB#`)
    REFERENCES `r3`.`28` (`JOB#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`31`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`31` ;

CREATE TABLE IF NOT EXISTS `r3`.`31` (
  `JOBQUAL#` INT(11) NOT NULL AUTO_INCREMENT,
  `JOBQUALLABEL` VARCHAR(255) NULL DEFAULT NULL,
  `JOBQUALVAL` VARCHAR(255) NULL DEFAULT NULL,
  PRIMARY KEY (`JOBQUAL#`))
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`33`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`33` ;

CREATE TABLE IF NOT EXISTS `r3`.`33` (
  `INT#` INT(11) NOT NULL AUTO_INCREMENT,
  `INTNAME` VARCHAR(255) NULL DEFAULT NULL,
  `INTGRADYEAR` INT(11) NULL DEFAULT NULL,
  `INTDEGTYPE` VARCHAR(255) NULL DEFAULT NULL,
  `INTDEGTITLE` VARCHAR(255) NULL DEFAULT NULL,
  `INTCOUNTRY` VARCHAR(255) NULL DEFAULT NULL,
  `INTSTATE` VARCHAR(45) NULL DEFAULT NULL,
  `INTCITY` VARCHAR(255) NULL DEFAULT NULL,
  `INTBODY` TEXT NULL DEFAULT NULL,
  PRIMARY KEY (`INT#`))
DEFAULT CHARACTER SET = utf8;
```

```
-- -----------------------------------------------------
-- Create relation `r3`.`4`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`4` ;

CREATE TABLE IF NOT EXISTS `r3`.`4` (
  `ISSUE#` INT(11) NOT NULL,
  `ART#` INT(11) NOT NULL,
  PRIMARY KEY (`ISSUE#`, `ART#`),
  INDEX `ART#_idx` (`ART#` ASC),
  CONSTRAINT `ISSUE#_Foreign0`
    FOREIGN KEY (`ISSUE#`)
    REFERENCES `r3`.`2` (`ISSUE#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `ART#_Foreign0`
    FOREIGN KEY (`ART#`)
    REFERENCES `r3`.`19` (`ART#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`5`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`5` ;

CREATE TABLE IF NOT EXISTS `r3`.`5` (
  `ISSUE#` INT(11) NOT NULL,
  `EVNT#` INT(11) NOT NULL,
  PRIMARY KEY (`ISSUE#`, `EVNT#`),
  INDEX `EVNT#_idx` (`EVNT#` ASC),
  CONSTRAINT `ISSUE#_Foreign3`
    FOREIGN KEY (`ISSUE#`)
    REFERENCES `r3`.`2` (`ISSUE#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `EVNT#_Foreign`
    FOREIGN KEY (`EVNT#`)
    REFERENCES `r3`.`26` (`EVNT#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`6`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`6` ;
```

```
CREATE TABLE IF NOT EXISTS `r3`.`6` (
  `ISSUE#` INT(11) NOT NULL,
  `CALLFOR#` INT(11) NOT NULL,
  PRIMARY KEY (`ISSUE#`, `CALLFOR#`),
  INDEX `CALLFOR#_idx` (`CALLFOR#` ASC),
  CONSTRAINT `ISSUE#_Foreign1`
    FOREIGN KEY (`ISSUE#`)
    REFERENCES `r3`.`2` (`ISSUE#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `CALLFOR#_Foreign`
    FOREIGN KEY (`CALLFOR#`)
    REFERENCES `r3`.`9` (`CALLFOR#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`7`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`7` ;

CREATE TABLE IF NOT EXISTS `r3`.`7` (
  `ISSUE#` INT(11) NOT NULL,
  `JOB#` INT(11) NOT NULL,
  PRIMARY KEY (`ISSUE#`, `JOB#`),
  INDEX `JOB#_idx` (`JOB#` ASC),
  CONSTRAINT `ISSUE#_Foreign4`
    FOREIGN KEY (`ISSUE#`)
    REFERENCES `r3`.`2` (`ISSUE#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `JOB#_Foreign`
    FOREIGN KEY (`JOB#`)
    REFERENCES `r3`.`28` (`JOB#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`8`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`8` ;

CREATE TABLE IF NOT EXISTS `r3`.`8` (
  `ISSUE#` INT(11) NOT NULL,
  `INT#` INT(11) NOT NULL,
```

```
  PRIMARY KEY (`ISSUE#`, `INT#`),
  INDEX `INT#_idx` (`INT#` ASC),
  CONSTRAINT `ISSUE#_Foreign2`
    FOREIGN KEY (`ISSUE#`)
    REFERENCES `r3`.`2` (`ISSUE#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `INT#_Foreign`
    FOREIGN KEY (`INT#`)
    REFERENCES `r3`.`33` (`INT#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`14`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`14` ;

CREATE TABLE IF NOT EXISTS `r3`.`14` (
  `CON#` INT NOT NULL,
  `CONORG#` INT NOT NULL,
  PRIMARY KEY (`CON#`, `CONORG#`),
  INDEX `CONORG#_idx` (`CONORG#` ASC),
  CONSTRAINT `CON#_Foreign2`
    FOREIGN KEY (`CON#`)
    REFERENCES `r3`.`12` (`CON#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `CONORG#_Foreign2`
    FOREIGN KEY (`CONORG#`)
    REFERENCES `r3`.`16` (`CONORG#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- -----------------------------------------------------
-- Create relation `r3`.`29`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `r3`.`29` ;

CREATE TABLE IF NOT EXISTS `r3`.`29` (
  `JOB#` INT(11) NOT NULL,
  `JOBQUAL#` INT(11) NOT NULL,
  PRIMARY KEY (`JOB#`, `JOBQUAL#`),
  INDEX `JOBQUAL#_idx` (`JOBQUAL#` ASC),
  CONSTRAINT `JOBQUAL#_Foreign`
    FOREIGN KEY (`JOBQUAL#`)
```

```
    REFERENCES `r3`.`31` (`JOBQUAL#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  CONSTRAINT `JOB#_Foreign1`
    FOREIGN KEY (`JOB#`)
    REFERENCES `r3`.`28` (`JOB#`)
    ON DELETE CASCADE
    ON UPDATE CASCADE)
DEFAULT CHARACTER SET = utf8;


-- SET SQL_MODE=@OLD_SQL_MODE;
-- SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
-- SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;

-- -----------------------------------------------------
-- Begin populating database with insert statements
-- -----------------------------------------------------

-- -----------------------------------------------------
-- R3.1 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`1` (`JORNTITLE`,`PUBFREQ`) VALUES ('The Journal of
Computing For Professions','bi-monthly');

-- -----------------------------------------------------
-- R3.3 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`3` (`ISSUE#`,`ISSUEMONTH`,`VOL#`,`ISSUEYEAR`) VALUES
(345,'June',5,1992);
INSERT INTO `r3`.`3` (`ISSUE#`,`ISSUEMONTH`,`VOL#`,`ISSUEYEAR`) VALUES
(347,'August',5,1992);

-- -----------------------------------------------------
-- R3.2 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`2` (`JORNTITLE`,`ISSUE#`) VALUES ('The Journal of Computing
For Professions',345);
INSERT INTO `r3`.`2` (`JORNTITLE`,`ISSUE#`) VALUES ('The Journal of Computing
For Professions',347);

-- -----------------------------------------------------
-- R3.19 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`19` (`ART#`,`ARTTITLE`,`ARTBODY`,`ARTPAGE#`) VALUES
(1,'ARIES: A Transaction Recovery Method Supporting Fine-Granularity Locking
and Partial Rollbacks Using Write-Ahead Logging','In this paper we present…',
1);
```

```
INSERT INTO `r3`.`19` (`ART#`,`ARTTITLE`,`ARTBODY`,`ARTPAGE#`) VALUES
(2,'Prediction Capability of Neural Networks Trained in Monte-Carlo
Paradigm','The Monte-Carlo training paradigm…', 3);
INSERT INTO `r3`.`19` (`ART#`,`ARTTITLE`,`ARTBODY`,`ARTPAGE#`) VALUES (3,'A
Propositional Modal Logic of Time Intervals','In certain areas of artifical
intelligence there is a need…', 1);
INSERT INTO `r3`.`19` (`ART#`,`ARTTITLE`,`ARTBODY`,`ARTPAGE#`) VALUES (4,'A
Parallel Shortest Augmenting Path Algorithm for the Assignment Problem','A
parrallel version of the shortest augmenting path algorithm…', 3);

-- ----------------------------------------------------
-- R3.4 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`4` (`ISSUE#`,`ART#`) VALUES (345,1);
INSERT INTO `r3`.`4` (`ISSUE#`,`ART#`) VALUES (345,2);
INSERT INTO `r3`.`4` (`ISSUE#`,`ART#`) VALUES (347,3);
INSERT INTO `r3`.`4` (`ISSUE#`,`ART#`) VALUES (347,4);

-- ----------------------------------------------------
-- R3.26 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (1,'IFIP Congress 1992: 12th World Computer Congress','Madrid,
Spain. Sponsor …','Grupo Geyseco',', IFIP \'92, Mauricio Legendre 3, BG, E-
2S0-16','Spain','Madrid',1992,'September',7,1992,'September',11);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (2,'International Workshop on Object Orientation in Operating
Systems','Paris, France. Sponsor: Inst…','Roy Campbell',', Univ. of Illinois,
Dept. of Comp. Sci., 2413 Digital Lab, 1304 W. Spring-field Ave., Urbana, IL
61801; (217) 333-3328; email:
roy@uiuc.edu','France','Paris',1992,'September',24,1992,'September',2);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (3,'2d European Modula-2 Conference','Leicester, England.
Sponsor: …','Sue Brookes','Modula-2, Leicester
Polytechnic….','England','Leicester',1992,'September',8,1992,'September',9);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (4,'Eurosim \'91: Eurosim Simulation Congress','Capri, Italy.
Sponsor ….','A. DiChiara','Dept. of Civil Engineering, Univ. of Rome \"Tor
Vergata\", via
della….','Italy','Capri',1992,'September',29,1992,'October',1);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
```

```
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (5,'MDBD-92: Baltic Conference on the Methods of Database
Design','Riga, Latvian Republic. Sponsor…','Boris Cadish','MDBD-92, Perses
St., Riga, Latvia, 226400…','Latvian
Republic','Riga',1992,'September',8,1992,'September',9);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (6,'International Workshop on Hardware-Software
Codesign','Estes Park Co. Sponsor: SIGDa…','Joanne Degroat','OhioState Univ.,
205 Neil Ave., Columbus, OH 43210; email…','USA','Estes Part,
CO',1992,'September',30,1992,'October',2);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (7,'DCCA-3, 3d IFIP Working Conference on Dependable Computing
for Critical Applications','Modello (Palermo), …','Luca
Simoncini','Dipartimento Di Ingegneria dell\'informazione,
Univ…','Italy','Modello (Palermo),
Sicily',1992,'September',14,1992,'September',16);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (8,'13th Annual Allerton Conference on Communication, Control
and Computing','Monticello, Ill. Sponsor.. ','P. Van Dooren','(217) 333-0656;
email: vdooren@uics1.uiuc.edu …','USA','Monticello,
Ill.',1992,'September',30,1992,'October',2);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (9,'SIGCOMM Symposium, Communication, Architectures, and
Protocols','Baltimore, Md…','Deepinder Sidhu','Univ. of Maryland,
Balti..','USA','Baltimore M<d.',1992,'August',17,1992,'August',20);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (10,'DEXA 92: 3d Conference on Database and Expert Systems and
Applications','Valencia, Spain..','Roland Wagner','Inst. Of Comp.
Sci…','Spain','Valencia',1992,'September',2,1992,'September',4);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (11,'HCI \'92 People and Computers','York, United
Kingdom…','Francoise Vassie','Center for continuing education, univ. of
York,…','United Kingdom','York',1992,'September',15,1992,'September',18);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (12,'21st International Conference of Distributed Object
```

```
Managent','Charles, Ill…','T. Feng','E.E. East Bldg.,…','USA','Charles,
Ill',1992,'August',17,1992,'August',21);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (13,'2d European Workshop on Software Process
Technology','Trondheim Normal,…','Jean Claude Derniame','Centre de Recherche
en Infor…','Norway','Trondheim',1992,'September',7,1992,'September',8);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (14,'7th Annual Knowledge Based Software','Trysons Corner,
Va…','Lewis Johnson','USC/Information…','USA','Tysons Corner,
Va',1992,'September',20,1992,'September',23);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (15,'International Workshop on Distributed Object
Management','Edmonton, Alber...','M. Tamer Ozsu','Univ. of Alberta, T6G 2H1
Canada;…','Canada','Edmonton, Alberta',1992,'August',19,1992,'August',21);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (16,'International Conference on Data Transmission','London,
United Kindom…','Jane Chopping','Inst. Of Electrical Engineers, Savor Place,
London…','United Kingdom','London',1992,'September',23,1992,'September',25);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (17,'3d International Workshop on Network and Operating System
Support for Digital Audio and Video','La Jolla, Calif. Sponsor:
SIGCOMM…','Venkat Rangan','UCSD, Mail Code 0114, La J…','USA','La Jolla,
Calif.',1993,'November',12,1993,'Novemeber',13);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (18,'4th International Workshop on Artificial Intelligence and
Statistics','Fort Laudedale, Fla…','R.W. Olford and/or P. Cheesman','(519)
888-4609; email..','USA','Fort Lauderdale,
Fla.',1993,'January',3,1993,'January',6);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (19,'3d International Symposium on Integrated Network
Management','San Fancisco…','Action Motivation','P.O. Box 191885…','USA','San
Francisco, Calif.',1993,'April',18,1993,'April',23);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (20,'International Workshop on Intelligent User
```

```
Interfaces','Orlanda, Fla. Sponsor…','William Hefley','Software Engineering
Inst., SEI 2218, Carnegie.,..','USA','Orlando,
Fla.',1993,'January',4,1993,'January',7);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (21,'9th International Conference on Data
Engineering','Vienna, Austria. Sponsor…','Forouzan Golshani','Comp. Sci. and
Eng. Dept, Arizona State
Univ…','Austria','Vienna',1993,'April',19,1993,'April',23);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (22,'1993 IEEE International Symposium on Information
Theory','San Antonio, Tex…','Robert Gray','Electrical Engineering ept, 133
Durand','USA','San Antonio, Tex.',1993,'January',17,1993,'January',22);
INSERT INTO `r3`.`26`
(`EVNT#`,`EVNTTITLE`,`EVNTBODY`,`EVNTCONTITLE`,`EVNTCONBODY`,`EVNTCOUNTRY`,`E
VNTLOCBODY`,`EVNTSYEAR`,`EVNTSMONTH`,`EVNTSDAY`,`EVNTEYEAR`,`EVNTEMONTH`,`EVN
TEDAY`) VALUES (23,'History of Programming Languages','Boston, Mass.
Sponsor','Jan Lee','CIT ITT…','USA','Boston,
Mass.',1993,'April',20,1993,'April',23);

-- ----------------------------------------------------
-- R3.5 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (345,1);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (345,2);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (345,3);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (345,4);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (345,5);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (345,6);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (345,7);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (345,8);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,9);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,10);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,11);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,12);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,13);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,14);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,15);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,16);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,17);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,18);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,19);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,20);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,21);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,22);
INSERT INTO `r3`.`5` (`ISSUE#`,`EVNT#`) VALUES (347,23);
```

```
-- -----------------------------------------------------
-- R3.18 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`18`
(`SEC#`,`SECTITLE`,`SECCOUNTRY`,`SECSTATE`,`SECCITY`,`SECADDR`,`SECZIP`,`SECP
HONE`,`SECMAIL`,`SECFAX`) VALUES (1,'SAC 93\' Secretariat % Computer Science
- MS 219','USA','Ok','Stillwater','Oklahoma State University','74078-
0599','(1)-405-744-5668','SAC93@a.cs.okstate.edu','(1)-619-594-6746');
INSERT INTO `r3`.`18`
(`SEC#`,`SECTITLE`,`SECCOUNTRY`,`SECSTATE`,`SECCITY`,`SECADDR`,`SECZIP`,`SECP
HONE`,`SECMAIL`,`SECFAX`) VALUES (2,'Mary Johnson Design Research Center, CII
7015 ','USA','NY','Troy','Rensselaer Polytechnical Institute','12180-
3590','(518) 276-6751','mjohnson@rdrc.rpi.edu','(518) 276-2702');
INSERT INTO `r3`.`18`
(`SEC#`,`SECTITLE`,`SECCOUNTRY`,`SECSTATE`,`SECCITY`,`SECADDR`,`SECZIP`,`SECP
HONE`,`SECMAIL`,`SECFAX`) VALUES (3,'Robert
Meitz','UDA','AZ','Tempe','Department of Aeronaurtical Technology
Tempe','85287-6406','602-965-7775','jdram@asauvm.inre.asu.edu','602-965-
5089');
INSERT INTO `r3`.`18`
(`SEC#`,`SECTITLE`,`SECCOUNTRY`,`SECSTATE`,`SECCITY`,`SECADDR`,`SECZIP`,`SECP
HONE`,`SECMAIL`,`SECFAX`) VALUES (4,'Yao-Nan
Lien','USA','IL','Naperville','AT&T Bell Laboratories 200 Park Plaza, Room
IHP 2A340','60566-7050','(708) 712-4318','yaonan.lien@att.com','(708) 713-
7098');
INSERT INTO `r3`.`18`
(`SEC#`,`SECTITLE`,`SECCOUNTRY`,`SECSTATE`,`SECCITY`,`SECADDR`,`SECZIP`,`SECP
HONE`,`SECMAIL`,`SECFAX`) VALUES (5,'Mark
Gembicki','USA','MD','Annapolis','TCS, 47 Randall
Street','21401',null,null,null);

-- -----------------------------------------------------
-- R3.12 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`12`
(`CON#`,`CONTITLE`,`CONLOC`,`CONCOUNTRY`,`CONSTATE`,`CONCITY`,`CONSYEAR`,`CON
SMONTH`,`CONSDAY`,`CONEYEAR`,`CONEMONTH`,`CONEDAY`) VALUES (1,'1993 Symposium
on Applied Computing (SAC \'93)','Indiana Convention Center,
Indiana','USA','Indiana','Indianapolis',1993,'February',14,1993,'February',16
);
INSERT INTO `r3`.`12`
(`CON#`,`CONTITLE`,`CONLOC`,`CONCOUNTRY`,`CONSTATE`,`CONCITY`,`CONSYEAR`,`CON
SMONTH`,`CONSDAY`,`CONEYEAR`,`CONEMONTH`,`CONEDAY`) VALUES (2,'Solid Modeling
\'93','Montreal,
Canada','Canada',null,'Montreal',1993,'May',19,1993,'May',21);
INSERT INTO `r3`.`12`
(`CON#`,`CONTITLE`,`CONLOC`,`CONCOUNTRY`,`CONSTATE`,`CONCITY`,`CONSYEAR`,`CON
SMONTH`,`CONSDAY`,`CONEYEAR`,`CONEMONTH`,`CONEDAY`) VALUES (3,'Twelfth
Internatinal Phoenix Conference on Computers and Communications','Scottsdale,
Arizona','USA','Arizona','Scottsdale',1993,'March',24,1993,'March',26);
```

```
INSERT INTO `r3`.`12`
(`CON#`,`CONTITLE`,`CONLOC`,`CONCOUNTRY`,`CONSTATE`,`CONCITY`,`CONSYEAR`,`CON
SMONTH`,`CONSDAY`,`CONEYEAR`,`CONEMONTH`,`CONEDAY`) VALUES (4,'The 13th
International Conference on Distrubted Computing Systems','Pittsburgh
Hilton','USA','Pennsylvania','Pittsburgh',1993,'May',25,1993,'May',28);
INSERT INTO `r3`.`12`
(`CON#`,`CONTITLE`,`CONLOC`,`CONCOUNTRY`,`CONSTATE`,`CONCITY`,`CONSYEAR`,`CON
SMONTH`,`CONSDAY`,`CONEYEAR`,`CONEMONTH`,`CONEDAY`) VALUES (5,'IEEE/ACM
International Conference on Developing and Managing Intelligent System
Projects','Washington DC','USA','Washington,
DC','DC',1993,'March',29,1993,'March',31);

-- ----------------------------------------------------
-- R3.9 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`9` (`CALLFOR#`,`CALLFORBODY`,`SEC#`,`CON#`) VALUES (1,'SAC
\'93 is the annual …',1,1);
INSERT INTO `r3`.`9` (`CALLFOR#`,`CALLFORBODY`,`SEC#`,`CON#`) VALUES (2,'This
symposium provides an iternational forum…',2,2);
INSERT INTO `r3`.`9` (`CALLFOR#`,`CALLFORBODY`,`SEC#`,`CON#`) VALUES (3,'This
international conference provides a forum…',3,3);
INSERT INTO `r3`.`9` (`CALLFOR#`,`CALLFORBODY`,`SEC#`,`CON#`) VALUES (4,'This
conference encompasses the technical aspects of specifying...',4,4);
INSERT INTO `r3`.`9` (`CALLFOR#`,`CALLFORBODY`,`SEC#`,`CON#`) VALUES
(5,'Expert systems, neural networks, fuzzy logic, …',5,5);

-- ----------------------------------------------------
-- R3.6 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`6` (`ISSUE#`,`CALLFOR#`) VALUES (345,1);
INSERT INTO `r3`.`6` (`ISSUE#`,`CALLFOR#`) VALUES (345,2);
INSERT INTO `r3`.`6` (`ISSUE#`,`CALLFOR#`) VALUES (347,3);
INSERT INTO `r3`.`6` (`ISSUE#`,`CALLFOR#`) VALUES (347,4);
INSERT INTO `r3`.`6` (`ISSUE#`,`CALLFOR#`) VALUES (347,5);

-- ----------------------------------------------------
-- R3.28 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`, `JOBSALARY`) VALUES
(1,'Research only position in Computer Sciences Laboratory','The Australian
National University','Applications are invited for appointment to a
contin….','submit','nontenure','Australia',null,'Canberra ','Secretary','The
Australian National University, GPO Box 4, Canberra…', '$A50,225-$A66,625');
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`, `JOBSALARY`) VALUES
(2,'Assistant/Associate Professor','University of Miami','Department of
Electrical and Computer
```

```
Engineering…','submit','tenure','USA','Florida','Miami','Dr. Tzay Y. Young,
Chairman','Dept. of Electrical and Computer Engineering, University of Miami,
P.O. Box 248294…', 'Commensurate with rank and experience');
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`, `JOBSALARY`) VALUES
(3,'Senior Faculty in Computer Science','University of Oregon','The
Department of Computer and Information Science invites applications for a
…','submit','nontenure','USA','Oregon','Eugene','Professor Jogn
Conery','Faculty Search Committee, Department of Computer and Information
Science, University of Oregon. Eugene, OR, 97405-1202…', 'Not in
Description');
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`, `JOBSALARY`) VALUES
(4,'Visiting Assistant Professor in Computer Science','Vassar
College','Vassar College is committed to building a
strong…','submit','nontenure','USA','New York','Poughkeepsie','Nancy M.
Ide','Chair, Department of Computer Science, Box 252, Vassar College,
Pough…', 'Not in Description');
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`, `JOBSALARY`) VALUES
(5,'Assistant Professor in Department of Computer Science','The University of
Alabama','Applications are invited for a tenure track posisions
in…','submit','tenure','USA','Alabama','Tuscaloosa','Dr. Hui-Chaun
Chen','Department of Computer Science, Box 870290, …', 'Commensurate with
rank and experience');
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`, `JOBSALARY`) VALUES
(6,'Chairperson Computer Science Department','Southern University at Baton
Rouge','The Computer Science Department invites
applications…','submit','tenure','USA','Los Angeles','Baton Rouge','Mrs.
Beulah','Chair person, Computer Science Chair Search Committee, P.O. Box…',
'Not in Description');
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`, `JOBSALARY`) VALUES
(7,'Research Asociate','Web Development Corporation','An ideal candidate
should have experience in pattern recognition,
…','submit','nontenure','USA','Pennsylvania','Rennett Square','Dr. Mahmut
Gunar','WEB Development Corporation Longwood Corporate Center…', 'Not in
Description');
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`, `JOBSALARY`) VALUES
(8,'Accademic Positions in Department of Information Systems and Computer
Science','National University of Singapore','Applications are invited
for…','contact',null,'Sigapore',null,'Kent Ridge Crescent','Director of
```

```
Personnel','National University of Singapore, 10 Kent Ridge Crescent, …',
'Competitive and fringe benefits');

-- ----------------------------------------------------
-- R3.7 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`7` (`ISSUE#`,`JOB#`) VALUES (345,1);
INSERT INTO `r3`.`7` (`ISSUE#`,`JOB#`) VALUES (345,2);
INSERT INTO `r3`.`7` (`ISSUE#`,`JOB#`) VALUES (347,3);
INSERT INTO `r3`.`7` (`ISSUE#`,`JOB#`) VALUES (347,4);
INSERT INTO `r3`.`7` (`ISSUE#`,`JOB#`) VALUES (347,5);
INSERT INTO `r3`.`7` (`ISSUE#`,`JOB#`) VALUES (347,6);
INSERT INTO `r3`.`7` (`ISSUE#`,`JOB#`) VALUES (347,7);
INSERT INTO `r3`.`7` (`ISSUE#`,`JOB#`) VALUES (347,8);

-- ----------------------------------------------------
-- R3.33 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`33`
(`INT#`,`INTNAME`,`INTGRADYEAR`,`INTDEGTYPE`,`INTDEGTITLE`,`INTCOUNTRY`,`INTS
TATE`,`INTCITY`,`INTBODY`) VALUES (1,'Deiondra Winn',2016,'B.S.Ed.','Early
Childhood Education','USA','Georgia','Hinesville','Deiondra Winn always
dreamed of becoming a teacher,…');
INSERT INTO `r3`.`33`
(`INT#`,`INTNAME`,`INTGRADYEAR`,`INTDEGTYPE`,`INTDEGTITLE`,`INTCOUNTRY`,`INTS
TATE`,`INTCITY`,`INTBODY`) VALUES (2,'Thomas
Kavoori',2015,'B.S.','Economics','India',null,'Hyderabad','When Thomas
Kavoori moved from his hometown of ….');
INSERT INTO `r3`.`33`
(`INT#`,`INTNAME`,`INTGRADYEAR`,`INTDEGTYPE`,`INTDEGTITLE`,`INTCOUNTRY`,`INTS
TATE`,`INTCITY`,`INTBODY`) VALUES (3,'Michelle
Burghardt',2015,'B.S.','Economics','Germany',null,'Coesfeld','Michelle
Burghardt - an Honors Program student…');
INSERT INTO `r3`.`33`
(`INT#`,`INTNAME`,`INTGRADYEAR`,`INTDEGTYPE`,`INTDEGTITLE`,`INTCOUNTRY`,`INTS
TATE`,`INTCITY`,`INTBODY`) VALUES (4,'Clara Prez
Marcos',2015,'B.S.','Economics','Spain',null,'Madrid','Clara Perez Marcos has
been a star player….');
INSERT INTO `r3`.`33`
(`INT#`,`INTNAME`,`INTGRADYEAR`,`INTDEGTYPE`,`INTDEGTITLE`,`INTCOUNTRY`,`INTS
TATE`,`INTCITY`,`INTBODY`) VALUES (5,'Fred Montgomery',2019,'M.S.','Physical
Therapy','USA','Georgia','Macon','When Fred \"Monty\" Martin came to
Armstrong in 2011…');
INSERT INTO `r3`.`33`
(`INT#`,`INTNAME`,`INTGRADYEAR`,`INTDEGTYPE`,`INTDEGTITLE`,`INTCOUNTRY`,`INTS
TATE`,`INTCITY`,`INTBODY`) VALUES (6,'Jerris
Semsabaugh',2016,'B.S.','Respiratory
Therapy','USA','Tennessee','Morristown','Jerris Sensabaugh describes
enrolling in Armstrong\'s…');
```

```
INSERT INTO `r3`.`33`
(`INT#`,`INTNAME`,`INTGRADYEAR`,`INTDEGTYPE`,`INTDEGTITLE`,`INTCOUNTRY`,`INTS
TATE`,`INTCITY`,`INTBODY`) VALUES (7,'Ashlee
Wilcox',2015,'M.S.','Communication Sciences and Disorders','USA','South
Carolina','Greenville','Ashlee Wilcos majored in elementary education at the
University of South Carolina…');
INSERT INTO `r3`.`33`
(`INT#`,`INTNAME`,`INTGRADYEAR`,`INTDEGTYPE`,`INTDEGTITLE`,`INTCOUNTRY`,`INTS
TATE`,`INTCITY`,`INTBODY`) VALUES (8,'Freda
Fosu',2016,'B.S.','Nursing','Ghana',null,'Kumasi','Freda Fosu has come a long
way from hom to study nursing…');

-- ----------------------------------------------------
-- R3.8 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`8` (`ISSUE#`,`INT#`) VALUES (345,1);
INSERT INTO `r3`.`8` (`ISSUE#`,`INT#`) VALUES (345,2);
INSERT INTO `r3`.`8` (`ISSUE#`,`INT#`) VALUES (345,3);
INSERT INTO `r3`.`8` (`ISSUE#`,`INT#`) VALUES (345,4);
INSERT INTO `r3`.`8` (`ISSUE#`,`INT#`) VALUES (345,5);
INSERT INTO `r3`.`8` (`ISSUE#`,`INT#`) VALUES (347,6);
INSERT INTO `r3`.`8` (`ISSUE#`,`INT#`) VALUES (347,7);
INSERT INTO `r3`.`8` (`ISSUE#`,`INT#`) VALUES (347,8);

-- ----------------------------------------------------
-- R3.10 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Artificial
Intelligence');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Biomedical
Informatics');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Cognitive
Science');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Communications');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Computational
Biology');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Computational
Chemistry');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Computational
Physics');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Computational
Geosciences');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Computer Assisted
Cooperative Work');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Database Design
and Engineering');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Distributed
Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Expert Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Multimedia');
```

```
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Geographic
Information Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Graphics and
Image Processing');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Human/Machine
Interfaces');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Logic and
Symbolic Programming');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Molecular
Computing');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Networking');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Neural
Networks');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Object Oriented
Programming');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Office
Automation');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Parallelism');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Software
Engineering');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Software
Productivity and Reusability');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (1,'Virtual
Reality');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Geometric and
topological domain');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Feature-based
modeling');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Representation
conversion');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Blends, sweeps,
offsets');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Algorithmic
Complexity');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Geometric
reasoning');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES
(2,'Interference/clearance analysis');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Hardware
support');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'User interaction
techniques');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Constraint-based
design');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Parametric
Design');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Assembly
modeling');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Product
modeling');
```

```
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Product data
exchange');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Manufacturing
planning');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (2,'Engineering
analysis');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Parallel and
Distributed Computing');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Fault Tolerance
and Reliability');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Neural Network
Computing');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Neural
Networks');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Distributed
Database Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Optical Disk
Storage');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'VLSI/CHSIC
Developments');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Advanced
Architectures');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Fiber Optics');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES
(3,'Satellite/Terrestrial Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Communications
Theory');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Spread
Spectrum');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Specification
methodologies');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Development
Enviroments');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Real-Time
Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Performance');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Software
Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Networking
Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Strategic
Impact');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (3,'Project
Management');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Computer
Architecture');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Distributed
Shared Memory');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Cooperative Work
and Artificial Intelligence');
```

```
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Languages, Tools,
and Software Engineering');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Distributed
Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Distributed
Operating Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Multimedia');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Commmunication
Architectures');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Algorithmic
Complexity');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Reliability and
Fault Tolerance');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Distributed
Algorithms');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Distributed
Database Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (4,'Real-Time
Issues');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Expert Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Neural
Networks');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Object Oriented
Programming');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Multimedia');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Case-based
reasoning');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Integrated and
Embedded Sustems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Fuzzy Systems');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Automated
Knowledge Acquisition');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Genetic
Algorithms');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Project
Management');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Financing
Intelligent System Projects');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Risk
Management');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Validation and
Verification');
INSERT INTO `r3`.`10` (`CALLFOR#`,`CALFORTOPIC`) VALUES (5,'Case studies and
lessons learned');

-- -----------------------------------------------------
-- R3.17 Inserts
-- -----------------------------------------------------
```

```
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(1,1,'October',1992,'Papers Due');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(2,1,'October',1992,'Panel Proposals Due');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(3,15,'November',1992,'Author Notification');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(4,15,'December',1992,'Camera Ready Copy');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(5,14,'February',1993,'Conference Begins');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(6,1,'September',1992,'Abstract Due (150-300 words)');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(7,15,'October',1992,'Full papers due (6 copies)');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(8,7,'January',1993,'Notice of acceptance & reviewer\'s comments');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(9,7,'February',1993,'Final cerera-ready papers due');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(10,17,'July',1992,'Papers, Special Sessions, and Tutorials');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(11,28,'August',1992,'For Technical Demonstrations');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(12,25,'September',1992,'Acceptance Notifications for papers');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(13,12,'August',1992,'Acceptance Notifications for specical sessions and
tutorials');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(14,14,'October',1992,'Acceptance Notifications for Technical
demonstrations');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(15,30,'November',1992,'Camera ready version of papers due');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(16,15,'October',1992,'Submit papers');
```

```
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(17,1,'February',1993,'Acceptance Notifications for papers');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(18,1,'October',1992,'Tutorials submissions due');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(19,1,'November',1992,'Paper submission deadline');
INSERT INTO `r3`.`17`
(`DEADLINE#`,`DEADDAY`,`DEADMONTH`,`DEADYEAR`,`DEADLABEL`) VALUES
(20,1,'December',1992,'Notice of acceptance sent to principle author');

-- ----------------------------------------------------
-- R3.11 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (1,1);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (1,2);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (1,3);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (1,4);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (1,5);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (2,6);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (2,7);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (2,8);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (2,9);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (3,10);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (3,11);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (3,12);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (3,13);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (3,14);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (3,15);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (4,16);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (4,17);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (4,18);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (5,19);
INSERT INTO `r3`.`11` (`CALLFOR#`,`DEADLINE#`) VALUES (5,20);

-- ----------------------------------------------------
-- R3.15 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (1,'Univ. of Arkansas','Hal Berghai','conference chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (2,'Oklahoma State Univ','George Hedrick','program chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (3,'San Diego State Univ','Ed Dealon','conference coordinator');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (4,'DOE Human Genome Project (Biomolocular Computing)','Ann
Barber','program co-chair');
```

```
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (5,'Univ. of Arkansas','Hal Berghai','steering committee');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (6,'Kyushu Univ','Makoto Amamiya','program committee');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (7,'Rensselaer','Joshua Turner','conference co-chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (8,'Rensselaer','Mary Johnson','conference coordinator');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (9,'Purdue University','David Andereson','program committee');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (10,'Honeywell, Inc.','James Weeldreyer','conference chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (11,'University of Illinois at Urbana, USA','Benjamin W. Wah','general
chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (12,'SUNY at Stony Brook, USA','Larry Wittie','program chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (13,'The American University','Larry Medsker','conference chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (14,'Villanova University','Janice Sipior','conference co-chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (15,'TCS','Mark Gembicki','program chair');
INSERT INTO `r3`.`15` (`CHAIR#`,`CHAIRORGNAME`,`CHAIRNAME`,`CHAIRTYPE`)
VALUES (16,'Univ. of Arkansas-LR','Ray Hashemi','program committee');

-- -----------------------------------------------------
-- R3.13 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (1,1);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (1,2);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (1,3);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (1,4);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (1,5);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (1,6);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (2,7);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (2,8);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (2,9);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (3,10);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (4,11);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (4,12);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (5,13);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (5,14);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (5,15);
INSERT INTO `r3`.`13` (`CON#`,`CHAIR#`) VALUES (1,16);

-- -----------------------------------------------------
-- R3.16 Inserts
-- -----------------------------------------------------
```

```
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(1,'acm','participating');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(2,'acm','co-sponsor');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(3,'siggraph','co-sponsor');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(4,'institute of electrical and electronic engineers','participating');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(5,'institute of electrical and electronic engineers','co-sponsor');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(6,'ieee comunications society','co-sponsor');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(7,'university of arizona','participating');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(8,'arizona state university','participating');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(9,'ieee computer society','co-sponsor');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(10,'institute of electrical and electronic engineers','co-sponsor');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(11,'acm special interest group on business data processing','co-sponsor');
INSERT INTO `r3`.`16` (`CONORG#`,`CONORGNAME`,`CONORGRELATION`) VALUES
(12,'ieee computer society','participating');

-- -----------------------------------------------------
-- R3.14 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (1,1);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (2,2);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (2,3);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (2,4);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (3,5);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (3,6);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (3,7);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (3,8);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (3,9);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (4,10);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (4,9);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (5,9);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (5,11);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (5,12);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (5,1);
INSERT INTO `r3`.`14` (`CON#`,`CONORG#`) VALUES (5,4);

-- -----------------------------------------------------
-- R3.24 Inserts
-- -----------------------------------------------------
```

```
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (1,'U.S.
Patent 4,498,145, IBM, Feb. 1985','Method for assuring atomicity of multi-row
update operations in a database system.','Patent');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (2,'In
Proceedings 3rd IEEE International Conference on Data Engineering (Feb.
1987)',null,'Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(3,'Addison-Wesley, Reading, Mass., 1987.','Concurrrency Control and Recovery
in Databse Systems','Book');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (4,'In
Proceedings 10th…','Robustness to crash in a distributed database: A non-
shared memory multi-processor approach. ','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (5,'In
Proceedings 7th International…','A history of System R and SQL/Data
System','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (6,'ACM
Trans. Comput. Syst…','801 storage: Architecture and programming','Book');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (7,'IBM
Syst. J. 27, 2…','OS/2 EE database manager: Overview and technical
highlights','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (8,'In
Proceedings Interntional…','Buggering schemes for permanent data','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(9,'Addison-Wesley, Redwood City….','Introduction to the Theory of Neural
Computation','Book');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(10,'Science 247, February 2...','Neuroscience Models the Brain','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (11,'The
International Journal of Methods..','Developmental Toxicity Risk Assesment: A
Rough Sets Approach','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(12,'ANZA Research, Inc...','Neural Computing','Book');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(13,'Parallel Distributed Processing, ….','Learning and relearning in
Boltzmann machines','Book');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(14,'Journal of Science…','Optimization by simulated annealing','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(15,'Proceedings of the 1992 ACM/IEE ….','Conflict Resolution in Learning
Through Examples','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(16,'Commun. ACM, 26…','Maintaining knowledge about temporal
intervals','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(17,'Artif. Int. 23…','Towards a general theory of action and
time','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (18,'In
Proceedings of the 9th…','A common-sense theory of time.','Book');
```

```
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (19,'In
Proceedings of 13th ACM…','A really abstract concurrent model and its
temporal logic','Book');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(20,'Notre Dame J…','Axioms for tense logic II: Time periods','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES (21,'In
E. L. Lawler, et al…','Branch and bound methods','Book');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(22,'Math. Prog. 34…','A competitive (dual) simplex method for the assignment
problem','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(23,'Math. Prog. 13..','The alternating basis algorithm for assignment
problems.','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(24,'Math. Prog. 13…','A new algorithm for the assignment
problem','Article');
INSERT INTO `r3`.`24` (`REF#`,`REFBODY`,`REFTITLE`,`REFTYPE`) VALUES
(25,'Electrical Engineering and Computer…','Parallel synchronous and
asyncchronous implementations of the auction algorithm','Article');

-- ----------------------------------------------------
-- R3.20 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (1,1);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (1,2);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (1,3);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (1,4);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (1,5);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (1,6);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (1,7);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (1,8);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (2,9);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (2,10);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (2,11);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (2,12);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (2,13);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (2,14);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (2,15);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (3,16);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (3,17);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (3,18);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (3,19);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (3,20);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (4,21);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (4,22);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (4,23);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (4,24);
INSERT INTO `r3`.`20` (`ART#`,`REF#`) VALUES (4,25);

-- ----------------------------------------------------
```

```
-- R3.21 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (1,'Algorithms');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (1,'Design');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (1,'Performance');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (1,'Reliability');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (2,'Machine Learning');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (2,'Neural Networks');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (2,'Monte-Carlo');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (2,'Intellegent Systems');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (3,'Time Intervals');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (3,'Theory');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (3,'Representation
Languages');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (3,'Temporal Logic');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (4,'Algorithms');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (4,'Parallel Processing');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (4,'Parallelism');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (4,'Linear Programming');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (4,'Combinatorial
Algorithms');
INSERT INTO `r3`.`21` (`ART#`,`ARTTOPIC`) VALUES (4,'Algorithmic
Complexity');

-- -----------------------------------------------------
-- R3.22 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (1,'C. Mohan');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (1,'Don Haderle');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (1,'Bruce Lindsay');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (1,'Hamid Pirahesh');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (1,'Peter Schwarz');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (2,'Ray Hashemi');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (3,'Joseph Y. Halpern');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (3,'Yoav Shoham');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (4,'Egon Balas');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (4,'Donald Miller');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (4,'Joseph Pekny');
INSERT INTO `r3`.`22` (`ART#`,`ARTAUTH`) VALUES (4,'Paolo Toth');

-- -----------------------------------------------------
-- R3.23 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (1,'Buffer Management');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (1,'Latching');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (1,'Locking');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (1,'Space Management');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (1,'Write-Ahead Logging');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (2,'Predicition Power');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (2,'Monte-Carlo Paradigm');
```

```
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (2,'Machine Learning');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (2,'Intellegent Systems');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (2,'Neural Networks');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (3,'Axiomatizability');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (3,'Modal Logic');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (3,'Temporal Logic');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (3,'Temporal Reasoning');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (3,'Time Intervals');
INSERT INTO `r3`.`23` (`ART#`,`ARTKEY`) VALUES (4,'None');

-- ----------------------------------------------------
-- R3.25 Inserts
-- ----------------------------------------------------
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (1,'Baker, J.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (1,'Crus, R.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (1,'Haderle, D.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (2,'Badrinath, B. R.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (2,'Ramamrithham, K.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (3,'Bernstein, P.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (3,'Hadzilacos, V.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (3,'Goodman, N.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (4,'Borr, A.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (5,'Chamberlin, D.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (5,'Gilbert A.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (5,'Yost, R.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (6,'Chang, A');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (6,'Mergen, M');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (7,'Chang, P. Y.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (7,'Myre, W. W.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (8,'Copeland, G.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (8,'Khoshaflan, S.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (8,'Smith, M.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (8,'Valduriez, P.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (9,'Hertz J.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (9,'Krogh A.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (9,'Palmer R. G.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (10,'Barinaga, M');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (11,'Hashemi R');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (11,'Jelovsek F.R.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (11,'Razzaghi M.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (12,'Wasserman P.D.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (13,'Hinton, G.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (13,'Sejnowski, T.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (14,'Kirkpatrick S.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (14,'Gelatt C. Jr.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (14,'Vecchi M.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (15,'Hashemi R.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (15,'Razzaghi M.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (15,'Jelovsek F.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (15,'Talburt R.');
```

```
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (16,'Allen, J. F.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (17,'Allen, J. F.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (18,'Allen, J. F.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (18,'Hayes, P. J.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (19,'Barringer, H.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (19,'Kuiper, R.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (19,'Pnueli, A.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (20,'Burgess, J. P.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (21,'Balas, E.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (21,'Toth P.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (22,'Balinski, M.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (23,'Barr, R. S.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (23,'Glover, F.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (23,'Klingman, D.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (24,'Bertsekas, D. P.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (25,'Bertsekas, D. P.');
INSERT INTO `r3`.`25` (`REF#`,`REFATHR`) VALUES (25,'Castanon, D. A.');

-- -----------------------------------------------------
-- R3.27 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (1,'International
Federation for Information Processing');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (2,'Inst. National
Recherche en Informatique el Automatique');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (2,'INRIA');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (2,'IEEE Technical
Workshop on Operating Systems and Application Enviroments');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (3,'Leicester
Polytechnic');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (4,'SCSI');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (4,'CASS');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (4,'CSSC');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (4,'CNR Italy');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (5,'FRAME, ltd.');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (5,'Baltic Coop.
Council');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (5,'ICM Univ of
Stockholm');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (5,'Latvian Academy of
Sciences');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (6,'SIGDA');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (6,'SIGSOFT');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (6,'IEEE-CS');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (6,'IEEE-C&-CS');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (7,'IFIP Working Group
10.4');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (8,'Univ. of Illinois at
Irbana-Champaign');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (9,'SIGCOMM');
```

```
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (10,'Tech. Univ. of
Valencia');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (10,'Research Inst. For
Applied Knowledge Engineering');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (10,'Ausurian Comp.
Soc.');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (10,'German Comp.
Soc.');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (11,'BCS');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (11,'HCI Group');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (11,'SIGCHI');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (13,'AFCET');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (13,'AICA');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (13,'Norwegian Computer
Society');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (14,'Rome Lab');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (14,'SIGART');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (14,'SIGSOFT');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (15,'Univ. of Alberta');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (15,'SIGMOD');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (16,'SIGCOMM');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (16,'SIGOIS');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (16,'IEE');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (17,'SIGCOMM');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (17,'SIGOPS');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (17,'SIGOIS');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (17,'UCSD');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (18,'Society for AI and
Statistics');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (18,'International
Association for Statistical Computing');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (19,'IFIP');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (19,'IEEE');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (19,'CNOM');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (20,'SIGCHI');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (20,'SIGART');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (20,'AAA1');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (20,'BCS');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (20,'HCI Group');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (21,'IEEE Computer
Society Technical Committee on Data Engineering');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (22,'IEEE');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (22,'Information Theory
Society');
INSERT INTO `r3`.`27` (`EVNT#`,`EVNTSPONSOR`) VALUES (23,'SIGPLAN');

-- ----------------------------------------------------
-- R3.31 Inserts
-- ----------------------------------------------------
```

```
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(1,'Research Record','Strong experience in relevent area');
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(2,'Degree','PHD in computer science of computer engineering');
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(3,'Ability','Initiate research project');
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(4,'Ability','Attract external funding');
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(5,'Teching','Undergrad and Graduate level');
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(6,'Ability','Active Leader');
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(7,'Degree','PHD in computer science or related field');
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(8,'Teaching','Undergraduate');
INSERT INTO `r3`.`31` (`JOBQUAL#`,`JOBQUALLABEL`,`JOBQUALVAL`) VALUES
(9,'Experience','Pattern recognition, signal processing, and extensive
programming expertise');

-- -----------------------------------------------------
-- R3.29 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (1,1);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (2,2);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (2,3);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (2,4);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (2,5);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (3,6);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (3,7);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (3,1);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (4,8);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (5,7);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (5,1);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (6,5);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (6,1);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (6,7);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (7,7);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (7,9);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (8,1);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (8,7);

-- -----------------------------------------------------
-- R3.32 Inserts
-- -----------------------------------------------------
INSERT INTO `r3`.`32`
(`JOBDEAD#`,`JOBDEADLABEL`,`JOBDEADYEAR`,`JOBDEADMONTH`,`JOBDEADDAY`) VALUES
(1,'Closing Date',1992,'August',31);
```

```
INSERT INTO `r3`.`32`
(`JOBDEAD#`,`JOBDEADLABEL`,`JOBDEADYEAR`,`JOBDEADMONTH`,`JOBDEADDAY`) VALUES
(2,'Position available until',1992,'September',null);
INSERT INTO `r3`.`32`
(`JOBDEAD#`,`JOBDEADLABEL`,`JOBDEADYEAR`,`JOBDEADMONTH`,`JOBDEADDAY`) VALUES
(3,'Target date of position fill',1993,'January',null);
INSERT INTO `r3`.`32`
(`JOBDEAD#`,`JOBDEADLABEL`,`JOBDEADYEAR`,`JOBDEADMONTH`,`JOBDEADDAY`) VALUES
(4,'Review of Applications Begin',1992,'April',25);
INSERT INTO `r3`.`32`
(`JOBDEAD#`,`JOBDEADLABEL`,`JOBDEADYEAR`,`JOBDEADMONTH`,`JOBDEADDAY`) VALUES
(5,'Postmarked applications by',1992,'July',1);
INSERT INTO `r3`.`32`
(`JOBDEAD#`,`JOBDEADLABEL`,`JOBDEADYEAR`,`JOBDEADMONTH`,`JOBDEADDAY`) VALUES
(6,'Starting date',1992,'August',1);

-- ------------------------------------------------------
-- R3.30 Inserts
-- ------------------------------------------------------
INSERT INTO `r3`.`30` (`JOB#`,`JOBDEAD#`) VALUES (1,1);
INSERT INTO `r3`.`30` (`JOB#`,`JOBDEAD#`) VALUES (3,2);
INSERT INTO `r3`.`30` (`JOB#`,`JOBDEAD#`) VALUES (3,3);
INSERT INTO `r3`.`30` (`JOB#`,`JOBDEAD#`) VALUES (5,4);
INSERT INTO `r3`.`30` (`JOB#`,`JOBDEAD#`) VALUES (6,5);
INSERT INTO `r3`.`30` (`JOB#`,`JOBDEAD#`) VALUES (6,6);
```

ATTACHMENTS.2: SQL Script for Queries a-m and Views 1 and 2

```
-- ------------------------------------------------------
-- ------------------------------------------------------
-- ------------------------------------------------------
-- Queries a-m. MYSQL format copied directly into comments following
-- each query's SQL code. Additional comments on the output may proceed
-- the MYSQL output, such as explinations for empty return results.
-- ------------------------------------------------------
-- ------------------------------------------------------
-- ------------------------------------------------------
-- ------------------------------------------------------
-- Query a : Display (print) your entire database.
--
SELECT TABLE_NAME, COLUMN_NAME, ORDINAL_POSITION, COLUMN_TYPE, COLUMN_KEY
FROM information_schema.COLUMNS
WHERE TABLE_SCHEMA='r3'
ORDER BY ABS(TABLE_NAME) ASC, ORDINAL_POSITION ASC;
--
-- Output:
-- +------------+----------------+------------------+---------------+--------
----+
-- | TABLE_NAME | COLUMN_NAME    | ORDINAL_POSITION | COLUMN_TYPE   |
COLUMN_KEY |
```

```
-- +------------+----------------+-----------------+--------------+--------
----+
-- | 1          | JORNTITLE      |               1 | varchar(255) |
PRI        |
-- | 1          | PUBFREQ        |               2 |
varchar(45)   |            |
-- | 2          | JORNTITLE      |               1 | varchar(255) |
PRI        |
-- | 2          | ISSUE#         |               2 | int(11)      |
PRI        |
-- | 3          | ISSUE#         |               1 | int(11)      |
PRI        |
-- | 3          | ISSUEDAY       |               2 | int(11)      |
MUL        |
-- | 3          | ISSUEMONTH     |               3 |
varchar(12)   |            |
-- | 3          | VOL#           |               4 | int(11)      |
MUL        |
-- | 3          | ISSUEYEAR      |               5 | int(11)      |
MUL        |
-- | 4          | ISSUE#         |               1 | int(11)      |
PRI        |
-- | 4          | ART#           |               2 | int(11)      |
PRI        |
-- | 5          | ISSUE#         |               1 | int(11)      |
PRI        |
-- | 5          | EVNT#          |               2 | int(11)      |
PRI        |
-- | 6          | ISSUE#         |               1 | int(11)      |
PRI        |
-- | 6          | CALLFOR#       |               2 | int(11)      |
PRI        |
-- | 7          | ISSUE#         |               1 | int(11)      |
PRI        |
-- | 7          | JOB#           |               2 | int(11)      |
PRI        |
-- | 8          | ISSUE#         |               1 | int(11)      |
PRI        |
-- | 8          | INT#           |               2 | int(11)      |
PRI        |
-- | 9          | CALLFOR#       |               1 | int(11)      |
PRI        |
-- | 9          | CALLFORBODY    |               2 |
text          |            |
-- | 9          | SEC#           |               3 | int(11)      |
MUL        |
-- | 9          | CON#           |               4 | int(11)      |
MUL        |
-- | 10         | CALLFOR#       |               1 | int(11)      |
PRI        |
```

```
-- | 10         | CALFORTOPIC    |               2 | varchar(255)  |
PRI        |
-- | 11         | CALLFOR#       |               1 | int(11)       |
PRI        |
-- | 11         | DEADLINE#      |               2 | int(11)       |
PRI        |
-- | 12         | CON#           |               1 | int(11)       |
PRI        |
-- | 12         | CONTITLE       |               2 |
varchar(255)  |            |
-- | 12         | CONLOC         |               3 |
varchar(45)   |            |
-- | 12         | CONCOUNTRY     |               4 |
varchar(25)   |            |
-- | 12         | CONSTATE       |               5 |
varchar(25)   |            |
-- | 12         | CONCITY        |               6 |
varchar(25)   |            |
-- | 12         | CONSYEAR       |               7 | int(11)       |
MUL        |
-- | 12         | CONSMONTH      |               8 | varchar(25)   |
MUL        |
-- | 12         | CONSDAY        |               9 | int(11)       |
MUL        |
-- | 12         | CONEYEAR       |              10 | int(11)       |
MUL        |
-- | 12         | CONEMONTH      |              11 | varchar(25)   |
MUL        |
-- | 12         | CONEDAY        |              12 | int(11)       |
MUL        |
-- | 13         | CON#           |               1 | int(11)       |
PRI        |
-- | 13         | CHAIR#         |               2 | int(11)       |
PRI        |
-- | 14         | CON#           |               1 | int(11)       |
PRI        |
-- | 14         | CONORG#        |               2 | int(11)       |
PRI        |
-- | 15         | CHAIR#         |               1 | int(11)       |
PRI        |
-- | 15         | CHAIRORGNAME   |               2 |
varchar(255)  |            |
-- | 15         | CHAIRNAME      |               3 |
varchar(45)   |            |
-- | 15         | CHAIRTYPE      |               4 |
varchar(25)   |            |
-- | 16         | CONORG#        |               1 | int(11)       |
PRI        |
-- | 16         | CONORGNAME     |               2 |
varchar(255)  |            |
```

```
-- | 16         | CONORGRELATION |               3 |
varchar(45)   |            |
-- | 17         | DEADLINE#      |               1 | int(11)       |
PRI        |
-- | 17         | DEADDAY        |               2 | int(11)       |
MUL        |
-- | 17         | DEADMONTH      |               3 |
varchar(12)   |            |
-- | 17         | DEADYEAR       |               4 | int(11)       |
MUL        |
-- | 17         | DEADLABEL      |               5 |
varchar(255)  |            |
-- | 18         | SEC#           |               1 | int(11)       |
PRI        |
-- | 18         | SECTITLE       |               2 |
varchar(255)  |            |
-- | 18         | SECCOUNTRY     |               3 |
varchar(45)   |            |
-- | 18         | SECSTATE       |               4 |
varchar(25)   |            |
-- | 18         | SECCITY        |               5 |
varchar(25)   |            |
-- | 18         | SECADDR        |               6 |
varchar(255)  |            |
-- | 18         | SECZIP         |               7 |
varchar(25)   |            |
-- | 18         | SECPHONE       |               8 |
varchar(25)   |            |
-- | 18         | SECMAIL        |               9 |
varchar(45)   |            |
-- | 18         | SECFAX         |              10 |
varchar(25)   |            |
-- | 19         | ART#           |               1 | int(11)       |
PRI        |
-- | 19         | ARTTITLE       |               2 |
varchar(255)  |            |
-- | 19         | ARTBODY        |               3 |
text          |            |
-- | 19         | ARTPAGE#       |               4 |
int(11)       |            |
-- | 20         | ART#           |               1 | int(11)       |
PRI        |
-- | 20         | REF#           |               2 | int(11)       |
PRI        |
-- | 21         | ART#           |               1 | int(11)       |
PRI        |
-- | 21         | ARTTOPIC       |               2 | varchar(255)  |
PRI        |
-- | 22         | ART#           |               1 | int(11)       |
PRI        |
```

```
-- | 22         | ARTAUTH        |               2 | varchar(255)  |
PRI        |
-- | 23         | ART#           |               1 | int(11)       |
PRI        |
-- | 23         | ARTKEY         |               2 | varchar(45)   |
PRI        |
-- | 24         | REF#           |               1 | int(11)       |
PRI        |
-- | 24         | REFBODY        |               2 | varchar(4000)
|            |
-- | 24         | REFTITLE       |               3 |
varchar(255)  |            |
-- | 24         | REFTYPE        |               4 |
varchar(12)   |            |
-- | 25         | REF#           |               1 | int(11)       |
PRI        |
-- | 25         | REFATHR        |               2 | varchar(45)   |
PRI        |
-- | 26         | EVNT#          |               1 | int(11)       |
PRI        |
-- | 26         | EVNTTITLE      |               2 |
varchar(255)  |            |
-- | 26         | EVNTBODY       |               3 |
text          |            |
-- | 26         | EVNTCONTITLE   |               4 |
varchar(255)  |            |
-- | 26         | EVNTCONBODY    |               5 | varchar(4000)
|            |
-- | 26         | EVNTCOUNTRY    |               6 |
varchar(255)  |            |
-- | 26         | EVNTLOCBODY    |               7 | varchar(4000)
|            |
-- | 26         | EVNTSYEAR      |               8 |
int(11)       |            |
-- | 26         | EVNTSMONTH     |               9 |
varchar(12)   |            |
-- | 26         | EVNTSDAY       |              10 |
int(11)       |            |
-- | 26         | EVNTEYEAR      |              11 |
int(11)       |            |
-- | 26         | EVNTEMONTH     |              12 |
varchar(12)   |            |
-- | 26         | EVNTEDAY       |              13 |
int(11)       |            |
-- | 27         | EVNT#          |               1 | int(11)       |
PRI        |
-- | 27         | EVNTSPONSOR    |               2 | varchar(255)  |
PRI        |
-- | 28         | JOB#           |               1 | int(11)       |
PRI        |
```

```
-- | 28         | JOBPOSITION    |               2 |
varchar(255)  |            |
-- | 28         | JOBORGNAME     |               3 |
varchar(255)  |            |
-- | 28         | JOBBODY        |               4 |
text          |            |
-- | 28         | JOBAPPTYPE     |               5 |
varchar(25)   |            |
-- | 28         | JOBSTATUS      |               6 |
varchar(25)   |            |
-- | 28         | JOBREFREQ#     |               7 |
int(11)       |            |
-- | 28         | JOBCOUNTRY     |               8 |
varchar(255)  |            |
-- | 28         | JOBSTATE       |               9 |
varchar(45)   |            |
-- | 28         | JOBCITY        |              10 |
varchar(255)  |            |
-- | 28         | JOBCONTITLE    |              11 |
varchar(255)  |            |
-- | 28         | JOBCONBODY     |              12 |
text          |            |
-- | 28         | JOBSALARY      |              13 |
varchar(225)  |            |
-- | 29         | JOB#           |               1 | int(11)       |
PRI        |
-- | 29         | JOBQUAL#       |               2 | int(11)       |
PRI        |
-- | 30         | JOB#           |               1 | int(11)       |
PRI        |
-- | 30         | JOBDEAD#       |               2 | int(11)       |
PRI        |
-- | 31         | JOBQUAL#       |               1 | int(11)       |
PRI        |
-- | 31         | JOBQUALLABEL   |               2 |
varchar(255)  |            |
-- | 31         | JOBQUALVAL     |               3 |
varchar(255)  |            |
-- | 32         | JOBDEAD#       |               1 | int(11)       |
PRI        |
-- | 32         | JOBDEADLABEL   |               2 |
varchar(255)  |            |
-- | 32         | JOBDEADYEAR    |               3 |
int(11)       |            |
-- | 32         | JOBDEADMONTH   |               4 |
varchar(12)   |            |
-- | 32         | JOBDEADDAY     |               5 |
int(11)       |            |
-- | 33         | INT#           |               1 | int(11)       |
PRI        |
```

```
-- | 33         | INTNAME        |               2 |
varchar(255)  |            |
-- | 33         | INTGRADYEAR    |               3 |
int(11)       |            |
-- | 33         | INTDEGTYPE     |               4 |
varchar(255)  |            |
-- | 33         | INTDEGTITLE    |               5 |
varchar(255)  |            |
-- | 33         | INTCOUNTRY     |               6 |
varchar(255)  |            |
-- | 33         | INTSTATE       |               7 |
varchar(45)   |            |
-- | 33         | INTCITY        |               8 |
varchar(255)  |            |
-- | 33         | INTBODY        |               9 |
text          |            |
-- +------------+----------------+-----------------+---------------+--------
----+
-- 132 rows in set (0.00 sec)
--
--  Query assumes the schema of database is desired and not the entirety of
its
-- contents, due to length of printout required for entire database print
-- -------------------------------------------------------


-- -------------------------------------------------------
-- Query b: Get the name of those conferences which hold outside of the
United States.
--
SELECT CONTITLE
FROM `r3`.`12`
WHERE CONCOUNTRY != 'USA';
--
-- Output:
-- +--------------------+
-- | CONTITLE           |
-- +--------------------+
-- | Solid Modeling '93 |
-- +--------------------+
-- 1 row in set (0.00 sec)
-- -
-- -------------------------------------------------------


-- -------------------------------------------------------
-- Query c: Get the list of all conferences which hold in cooperation with
IEEE.
--
SELECT CONTITLE FROM `r3`.`12`
```

```
WHERE `CON#` IN (
  SELECT `CON#` FROM `r3`.`14`
  WHERE `CONORG#` IN (
    SELECT `CONORG#` FROM `r3`.`16`
    WHERE CONORGNAME LIKE "%ieee%"
    OR CONORGNAME LIKE "%institute of electrical and electronic engineers%"
    )
  );
    --
-- Output:
-- +-------------------------------------------------------------------------
-----------------+
-- |
CONTITLE
            |
-- +-------------------------------------------------------------------------
-----------------+
-- | Solid Modeling
'93                                                                          |
-- | Twelfth Internatinal Phoenix Conference on Computers and
Communications                    |
-- | The 13th International Conference on Distrubted Computing
Systems                           |
-- | IEEE/ACM International Conference on Developing and Managing Intelligent
System Projects |
-- +-------------------------------------------------------------------------
-----------------+
-- 4 rows in set (0.00 sec)
-- -
-- ------------------------------------------------------


-- ------------------------------------------------------
-- Query d: To whom the papers should be sent for the 13th International
Conference on Distributed
-- Computing Systems, and where is the location of this conference.
--
SELECT A.SECTITLE, B.CONLOC
FROM `r3`.`18` A, `r3`.`12` B
WHERE B.CONTITLE LIKE "%13th International Conference on Distrubted Computing
Systems%"
AND B.`CON#` = (
  SELECT `CON#`
  FROM `r3`.`9`
  WHERE `SEC#` = A.`SEC#`
  );
--
-- Output:
-- +--------------+--------------------+
-- | SECTITLE     | CONLOC             |
```

```
-- +--------------+--------------------+
-- | Yao-Nan Lien | Pittsburgh Hilton |
-- +--------------+--------------------+
-- 1 row in set (0.01 sec)
-- -
-- ------------------------------------------------------


-- ------------------------------------------------------
-- Query e: Get the list of authors who also serve as the conference
-- committee members
--
SELECT DISTINCT ARTAUTH
FROM `r3`.`22`
WHERE `ARTAUTH` IN (
  SELECT CHAIRNAME
  FROM `r3`.`15`
  );
--
-- Output:
-- +-------------+
-- | ARTAUTH     |
-- +-------------+
-- | Ray Hashemi |
-- +-------------+
-- 1 row in set (0.00 sec)
-- ------------------------------------------------------


-- ------------------------------------------------------
-- Query f: How many call for papers are in the issue of August 1992.
--
SELECT COUNT(`CALLFOR#`)
FROM `r3`.`6`
WHERE `ISSUE#` = (
  SELECT `ISSUE#`
  FROM `r3`.`3`
  WHERE ISSUEMONTH = 'August'
  ) ;
--
-- Output:
-- +-------------------+
-- | COUNT(`CALLFOR#`) |
-- +-------------------+
-- |                 3 |
-- +-------------------+
-- 1 row in set (0.01 sec)
-- ------------------------------------------------------
```

```
-- --------------------------------------------------
-- Query g: Get the list of Jobs which are located in the same state as
-- the conference on the Solid Model`93.
--
SELECT `JOB#`, JOBPOSITION, JOBORGNAME
FROM `r3`.`28`
WHERE JOBSTATE IN (
  SELECT CONSTATE
  FROM `r3`.`12`
  WHERE CONTITLE LIKE "%Solid Modeling '93%"
  );
--
-- Output:
-- Empty set (0.00 sec)
--
-- Output is empty because conference does not have a state, since it is
-- located in Montreal Canada
-- --------------------------------------------------


-- --------------------------------------------------
-- Query h: Get the list of qualifications for all jobs available outside of
-- United States
--
SELECT JOBQUALLABEL, JOBQUALVAL
FROM `r3`.`31`
WHERE `JOBQUAL#` IN (
  SELECT `JOBQUAL#`
  FROM `r3`.`29`
  WHERE `JOB#` IN (
    SELECT `JOB#`
    FROM `r3`.`28`
    WHERE `JOBCOUNTRY` != "USA"
    )
  );
--
-- Output:
-- +-----------------+-----------------------------------------+
-- | JOBQUALLABEL    | JOBQUALVAL                              |
-- +-----------------+-----------------------------------------+
-- | Research Record | Strong experience in relevent area      |
-- | Degree          | PHD in computer science or related field |
-- +-----------------+-----------------------------------------+
-- 2 rows in set (0.00 sec)
-- --------------------------------------------------


-- --------------------------------------------------
-- Query i
--
```

```
-- We have forgotten to include two job announcements for
-- the last issue. Add these job announcements to your
-- database (Look for these jobs under the heading of LOST JOBS in the
attachment)
-- ----------------------------------------------------
-- Insert in order of foreign key dependencies
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`) VALUES (9,'Faculty
Position','Lindfield College','Lindield College
seeks…','submit','tenure','USA','Oregon','McMinnville','Dr. Kenneth P.
Goodrich','Dean of Faculty, Linfield College, McMinn…');
INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`) VALUES (10,'Faculty
Position','Duke University','The depatment of Electrical Engineering at
Duke…','submit','tenure','USA','North Carolina','Durham','Kishor
Trivedi','Computer Engineering Search Committee, Department of Electrical
Engineering…');

INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (9,7);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (9,8);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (10,1);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (10,7);
INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (10,8);

INSERT INTO `r3`.`32`
(`JOBDEAD#`,`JOBDEADLABEL`,`JOBDEADYEAR`,`JOBDEADMONTH`,`JOBDEADDAY`) VALUES
(7,'Screening Begins',1992,'April',13);

INSERT INTO `r3`.`30` (`JOB#`,`JOBDEAD#`) VALUES (9,7);
--
-- Output
-- mysql> INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`) VALUES (9,'Faculty
Position','Lindfield College','Lindield College
seeks…','submit','tenure','USA','Oregon','McMinnville','Dr. Kenneth P.
Goodrich','Dean of Faculty, Linfield College, McMinn…');
-- Query OK, 1 row affected (0.01 sec)

-- mysql> INSERT INTO `r3`.`28`
(`JOB#`,`JOBPOSITION`,`JOBORGNAME`,`JOBBODY`,`JOBAPPTYPE`,`JOBSTATUS`,`JOBCOU
NTRY`,`JOBSTATE`,`JOBCITY`,`JOBCONTITLE`,`JOBCONBODY`) VALUES (10,'Faculty
Position','Duke University','The depatment of Electrical Engineering at
Duke…','submit','tenure','USA','North Carolina','Durham','Kishor
Trivedi','Computer Engineering Search Committee, Department of Electrical
Engineering…');
-- Query OK, 1 row affected (0.00 sec)
```

```
-- mysql>
-- mysql> INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (9,7);
-- Query OK, 1 row affected (0.00 sec)

-- mysql> INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (9,8);
-- Query OK, 1 row affected (0.00 sec)

-- mysql> INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (10,1);
-- Query OK, 1 row affected (0.00 sec)

-- mysql> INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (10,7);
-- Query OK, 1 row affected (0.00 sec)

-- mysql> INSERT INTO `r3`.`29` (`JOB#`,`JOBQUAL#`) VALUES (10,8);
-- Query OK, 1 row affected (0.00 sec)
-- ------------------------------------------------------


-- ------------------------------------------------------
-- Query j: The deadline for submitting a paper to the Solid Model'93
conference
-- has been changed to December 30, 1992. Update your database to reflect the
-- new date.
--
UPDATE `r3`.`17`
SET DEADDAY = 30, DEADMONTH = 'December', DEADYEAR = 1992
WHERE DEADLABEL = 'Full papers due (6 copies)'
AND `DEADLINE#` IN (
  SELECT `DEADLINE#`
  FROM `r3`.`11`
  WHERE `CALLFOR#` IN (
    SELECT `CALLFOR#`
    FROM `r3`.`9`
    WHERE `CON#` = (
        SELECT `CON#`
        FROM `r3`.`12`
        WHERE CONTITLE = "Solid Modeling '93"
      )
    )
  );
--
-- Output:
-- Query OK, 1 row affected (0.00 sec)
-- Rows matched: 1  Changed: 1  Warnings: 0
--
-- Checking the tuple before update
SELECT * FROM `r3`.`17`
WHERE DEADLABEL = 'Full papers due (6 copies)'
AND `DEADLINE#` IN (
  SELECT `DEADLINE#`
```

```
  FROM `r3`.`11`
  WHERE `CALLFOR#` IN (
    SELECT `CALLFOR#`
    FROM `r3`.`9`
    WHERE `CON#` = (
        SELECT `CON#`
        FROM `r3`.`12`
        WHERE CONTITLE = "Solid Modeling '93"
      )
    )
  );
-- Output:
-- +----------+---------+----------+---------+---------------------------
+
-- | DEADLINE# | DEADDAY | DEADMONTH | DEADYEAR |
DEADLABEL                  |
-- +----------+---------+----------+---------+---------------------------
+
-- |         7 |      15 | October   |     1992 | Full papers due (6 copies)
|
-- +----------+---------+----------+---------+---------------------------
+
-- 1 row in set (0.00 sec)
--
-- Checking the tuple after update
SELECT * FROM `r3`.`17`
WHERE DEADLABEL = 'Full papers due (6 copies)'
AND `DEADLINE#` IN (
  SELECT `DEADLINE#`
  FROM `r3`.`11`
  WHERE `CALLFOR#` IN (
    SELECT `CALLFOR#`
    FROM `r3`.`9`
    WHERE `CON#` = (
        SELECT `CON#`
        FROM `r3`.`12`
        WHERE CONTITLE = "Solid Modeling '93"
      )
    )
  );
-- Output:
-- +----------+---------+----------+---------+---------------------------
+
-- | DEADLINE# | DEADDAY | DEADMONTH | DEADYEAR |
DEADLABEL                  |
-- +----------+---------+----------+---------+---------------------------
+
-- |         7 |      30 | December  |     1992 | Full papers due (6 copies)
|
```

```
-- +-----------+---------+-----------+----------+---------------------------
+
-- 1 row in set (0.00 sec)
-- ------------------------------------------------------


-- ------------------------------------------------------
-- Query k: The University of Miami withdrew its add for open position
-- yesterday. Delete this job announcement from your database.
--
Delete
FROM `r3`.`28`
WHERE JOBORGNAME = 'University of Miami';
--
-- Output:
-- Query OK, 1 row affected (0.00 sec)
-- ------------------------------------------------------


-- ------------------------------------------------------
-- Query l: Get the name of conferences which is sponsored by both
-- SIGART and SIGCHI
--
SELECT EVNTTITLE
FROM `r3`.`26`
WHERE `EVNT#` IN (
  SELECT `EVNT#`
  FROM `r3`.`27`
  WHERE EVNTSPONSOR = "SIGART" AND `EVNT#` IN (
    SELECT `EVNT#`
    FROM `r3`.`27`
    WHERE EVNTSPONSOR = "SIGCHI"
    ));
--
-- Output:
-- +-----------------------------------------------------+
-- | EVNTTITLE                                           |
-- +-----------------------------------------------------+
-- | International Workshop on Intelligent User Interfaces |
-- +-----------------------------------------------------+
-- 1 row in set (0.01 sec)
-- ------------------------------------------------------


-- ------------------------------------------------------
-- Query m: Get the list of authors who had a publication in both
-- issues of the JCP.
--
SELECT DISTINCT ARTAUTH
FROM `r3`.`22`
```

```
WHERE ARTAUTH IN (
  SELECT ARTAUTH
  FROM `r3`.`22`
  WHERE `ART#` IN (
    SELECT `ART#`
    FROM `r3`.`4`
    WHERE `ISSUE#` = 345
    )
  ) AND ARTAUTH IN (
  SELECT ARTAUTH
  FROM `r3`.`22`
  WHERE `ART#` IN (
    SELECT `ART#`
    FROM `r3`.`4`
    WHERE `ISSUE#` = 347
    )
  );
--
-- Output:
-- +-----------------------------------------------------------+
-- | EVNTTITLE                                                 |
-- +-----------------------------------------------------------+
-- | International Workshop on Intelligent User Interfaces |
-- +-----------------------------------------------------------+
-- 1 row in set (0.01 sec)
-- ----------------------------------------------------


-- ----------------------------------------------------
-- Query n: Get the name of students (serving as interns) who
-- study in the same discipline as "Clara Prez Marcos" and they
-- are originally from the same State as "Fred Montgomery"
--
SELECT DISTINCT INTNAME
FROM `r3`.`33`
WHERE INTDEGTITLE = (
  SELECT INTDEGTITLE
  FROM `r3`.`33`
  WHERE INTNAME = "Clara Prez Marcos"
  ) AND INTSTATE = (
    SELECT INTSTATE
    FROM `r3`.`33`
    WHERE INTNAME = "Fred Montgomery"
    );
--
-- Output:
-- Empty set (0.01 sec)
--
-- The other students studying Economics aren't from Georgia
-- ----------------------------------------------------
```

```
-- -----------------------------------------------------
-- -----------------------------------------------------
-- -----------------------------------------------------
-- Views
-- -----------------------------------------------------
-- -----------------------------------------------------
-- -----------------------------------------------------


-- -----------------------------------------------------
-- View 1: This view is used by the researchers and it includes
-- the issue number, issue date, article title, article author(s),
-- key words, and page numbers.
--
CREATE OR REPLACE VIEW researchers_view AS
SELECT DISTINCT A.`ISSUE#`, A.ISSUEMONTH, A.ISSUEYEAR, B.ARTTITLE, C.ARTAUTH,
         D.ARTKEY, B.`ARTPAGE#`
FROM `r3`.`3` A, `r3`.`19` B, `r3`.`22` C, `r3`.`23` D
WHERE B.`ART#` IN (
  SELECT `ART#`
  FROM `r3`.`4`
  WHERE `ISSUE#` = A.`ISSUE#`
  )
AND C.`ART#` = B.`ART#`
AND D.`ART#` = B.`ART#`;
--
-- Preview View
SELECT * FROM researchers_view;
-- Output:
-- +--------+------------+-----------+---------------------------------------
----------------------------------------------------------------------------
------+-------------------+----------------------+----------+
-- | ISSUE# | ISSUEMONTH | ISSUEYEAR |
ARTTITLE
                                                | ARTAUTH           |
ARTKEY                | ARTPAGE# |
-- +--------+------------+-----------+---------------------------------------
----------------------------------------------------------------------------
------+-------------------+----------------------+----------+
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Bruce Lindsay     | Buffer Management    |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Bruce Lindsay     | Latching             |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Bruce Lindsay     | Locking              |        1 |
```

```
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Bruce Lindsay     | Space Management     |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Bruce Lindsay     | Write-Ahead Logging  |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | C. Mohan          | Buffer Management    |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | C. Mohan          | Latching             |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | C. Mohan          | Locking              |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | C. Mohan          | Space Management     |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | C. Mohan          | Write-Ahead Logging  |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Don Haderle       | Buffer Management    |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Don Haderle       | Latching             |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Don Haderle       | Locking              |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Don Haderle       | Space Management     |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Don Haderle       | Write-Ahead Logging  |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Hamid Pirahesh    | Buffer Management    |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Hamid Pirahesh    | Latching             |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Hamid Pirahesh    | Locking              |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Hamid Pirahesh    | Space Management     |        1 |
```

```
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Hamid Pirahesh    | Write-Ahead Logging  |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Peter Schwarz     | Buffer Management    |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Peter Schwarz     | Latching             |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Peter Schwarz     | Locking              |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Peter Schwarz     | Space Management     |        1 |
-- |    345 | June       |      1992 | ARIES: A Transaction Recovery Method
Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead
Logging | Peter Schwarz     | Write-Ahead Logging  |        1 |
-- |    345 | June       |      1992 | Prediction Capability of Neural
Networks Trained in Monte-Carlo
Paradigm                                                | Ray
Hashemi       | Intellegent Systems  |        3 |
-- |    345 | June       |      1992 | Prediction Capability of Neural
Networks Trained in Monte-Carlo
Paradigm                                                | Ray
Hashemi       | Machine Learning     |        3 |
-- |    345 | June       |      1992 | Prediction Capability of Neural
Networks Trained in Monte-Carlo
Paradigm                                                | Ray
Hashemi       | Monte-Carlo Paradigm |        3 |
-- |    345 | June       |      1992 | Prediction Capability of Neural
Networks Trained in Monte-Carlo
Paradigm                                                | Ray
Hashemi       | Neural Networks      |        3 |
-- |    345 | June       |      1992 | Prediction Capability of Neural
Networks Trained in Monte-Carlo
Paradigm                                                | Ray
Hashemi       | Predicition Power    |        3 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Joseph Y. Halpern | Axiomatizability     |        1 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Joseph Y. Halpern | Modal Logic          |        1 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Joseph Y. Halpern | Temporal Logic       |        1 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Joseph Y. Halpern | Temporal Reasoning   |        1 |
```

```
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Joseph Y. Halpern | Time Intervals       |        1 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Yoav Shoham       | Axiomatizability     |        1 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Yoav Shoham       | Modal Logic          |        1 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Yoav Shoham       | Temporal Logic       |        1 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Yoav Shoham       | Temporal Reasoning   |        1 |
-- |    347 | August     |      1992 | A Propositional Modal Logic of Time
Intervals
        | Yoav Shoham       | Time Intervals       |        1 |
-- |    347 | August     |      1992 | A Parallel Shortest Augmenting Path
Algorithm for the Assignment
Problem                                              | Donald Miller     |
None                |        3 |
-- |    347 | August     |      1992 | A Parallel Shortest Augmenting Path
Algorithm for the Assignment
Problem                                              | Egon Balas        |
None                |        3 |
-- |    347 | August     |      1992 | A Parallel Shortest Augmenting Path
Algorithm for the Assignment
Problem                                              | Joseph Pekny      |
None                |        3 |
-- |    347 | August     |      1992 | A Parallel Shortest Augmenting Path
Algorithm for the Assignment
Problem                                              | Paolo Toth        |
None                |        3 |
-- +--------+------------+-----------+-----------------------------------------
-------------------------------------------------------------------------------
------+------------------+----------------------+----------+
-- 44 rows in set (0.01 sec)
-- ------------------------------------------------


-- ------------------------------------------------------
-- View 2: This view is used by the job hunters and it includes
-- the issue number, issue date, job title, job location, job
-- status (tenue and non-tenure track), and salary,
--
CREATE OR REPLACE VIEW job_hunter_view AS
SELECT DISTINCT A.`ISSUE#`, A.ISSUEMONTH, A.ISSUEYEAR, B.JOBPOSITION,
 B.JOBORGNAME, B.JOBSTATUS, B.JOBSALARY
FROM `r3`.`3` A, `r3`.`28` B
```

```
WHERE B.`JOB#` IN (
  SELECT `JOB#`
  FROM `r3`.`7`
  WHERE `ISSUE#` = A.`ISSUE#`
  );
--
-- Preview View
SELECT * FROM job_hunter_view;
-- Output:
-- +--------+------------+-----------+--------------------------------------
----------------------------------------+-----------------------------------
+-----------+---------------------------------------+
-- | ISSUE# | ISSUEMONTH | ISSUEYEAR |
JOBPOSITION
| JOBORGNAME                          | JOBSTATUS |
JOBSALARY                             |
-- +--------+------------+-----------+--------------------------------------
----------------------------------------+-----------------------------------
+-----------+---------------------------------------+
-- |    345 | June       |      1992 | Research only position in Computer
Sciences Laboratory                          | The Australian National
University | nontenure | $A50,225-$A66,625                     |
-- |    345 | June       |      1992 | Assistant/Associate
Professor                                                 | University of
Miami                | tenure    | Commensurate with rank and experience |
-- |    347 | August     |      1992 | Senior Faculty in Computer
Science                                              | University of
Oregon               | nontenure | Not in Description                    |
-- |    347 | August     |      1992 | Visiting Assistant Professor in
Computer Science                                  | Vassar
College                     | nontenure | Not in
Description                    |
-- |    347 | August     |      1992 | Assistant Professor in Department of
Computer Science                           | The University of
Alabama          | tenure    | Commensurate with rank and experience |
-- |    347 | August     |      1992 | Chairperson Computer Science
Department                                        | Southern University at
Baton Rouge | tenure    | Not in Description                    |
-- |    347 | August     |      1992 | Research
Asociate                                                            | Web
Development Corporation        | nontenure | Not in
Description                    |
-- |    347 | August     |      1992 | Accademic Positions in Department of
Information Systems and Computer Science | National University of
Singapore   | NULL      | Competitive and fringe benefits       |
-- +--------+------------+-----------+--------------------------------------
----------------------------------------+-----------------------------------
+-----------+---------------------------------------+
-- 8 rows in set (0.00 sec)
-- ------------------------------------------------
```