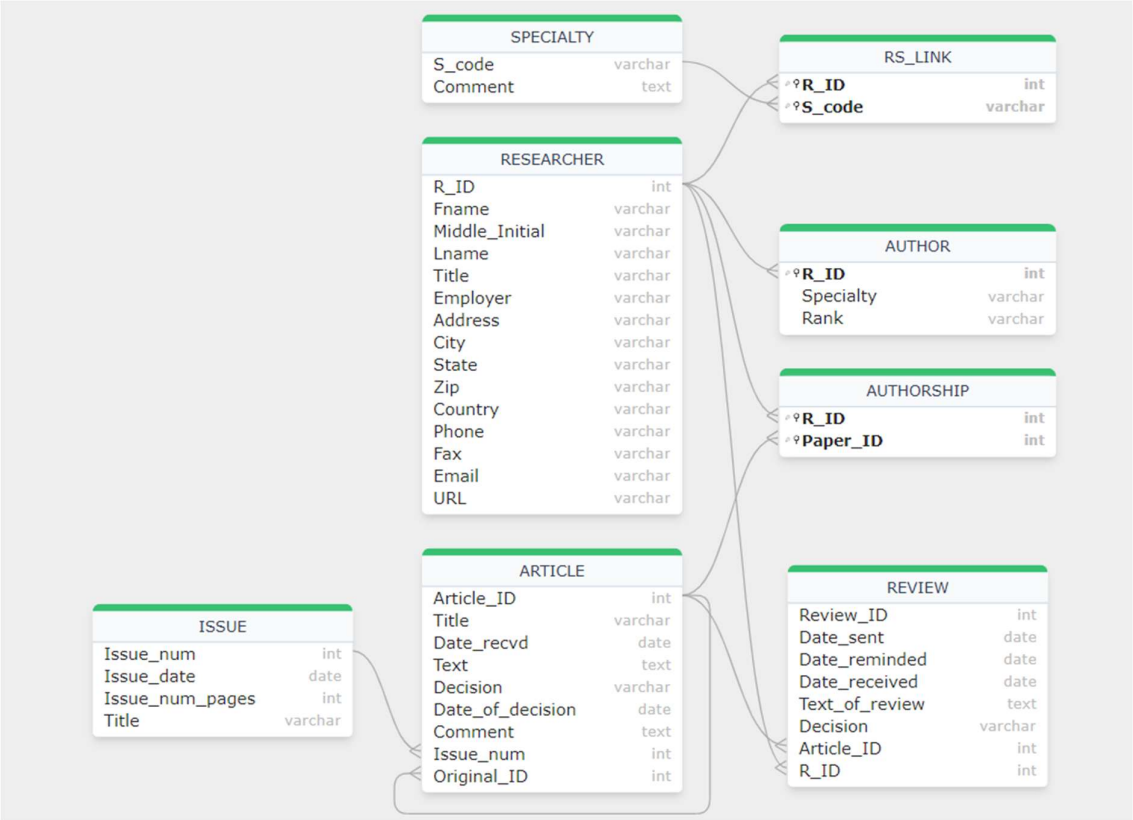
Part 1 : ER Diagram



Part 2: Database Implementation and Data Population

(35 points)

```
CREATE TABLE ARTICLE (
    Article_ID INT PRIMARY KEY,
    Title VARCHAR(255),
    Date_recvd DATE,
    Text TEXT,
    Decision VARCHAR(100),
    Date_of_decision DATE,
    comment TEXT,
    Issue_num INT,
    Original_ID INT,
    FOREIGN KEY (Issue_num) REFERENCES ISSUE(Issue_num),
    FOREIGN KEY (Original_ID) REFERENCES ARTICLE(Article_ID)
);

CREATE TABLE REVIEW (
    Review_ID INT PRIMARY KEY,
    Date_sent DATE,
    Date_reminded DATE,
```

```
    Date_received DATE,
    Text_of_review TEXT,
    Decision VARCHAR(100),
    Article_ID INT,
    R_ID INT,
    FOREIGN KEY (Article_ID) REFERENCES ARTICLE(Article_ID),
    FOREIGN KEY (R_ID) REFERENCES RESEARCHER(R_ID)
);

CREATE TABLE RESEARCHER (
    R_ID INT PRIMARY KEY,
    Fname VARCHAR(100),
    Middle_Initial CHAR(1),
    Lname VARCHAR(100),
    Title VARCHAR(100),
    Employer VARCHAR(255),
    Address VARCHAR(255),
    City VARCHAR(100),
    State VARCHAR(100),
    Zip VARCHAR(10),
    Country VARCHAR(100),
    Phone VARCHAR(15),
    Fax VARCHAR(15),
    Email VARCHAR(100),
    URL VARCHAR(255)
);

CREATE TABLE AUTHOR (
    R_ID INT PRIMARY KEY,
    Specialty VARCHAR(255),
    Rank VARCHAR(100),
    FOREIGN KEY (R_ID) REFERENCES RESEARCHER(R_ID)
);

CREATE TABLE ISSUE (
    Issue_num INT PRIMARY KEY,
    Issue_date DATE,
    Issue_num_pages INT,
    Title VARCHAR(255)
);

CREATE TABLE SPECIALTY (
    S_code INT PRIMARY KEY,
    comment TEXT
);

CREATE TABLE RS_LINK (
    R_ID INT,
    S_code INT,
    PRIMARY KEY (R_ID, S_code),
    FOREIGN KEY (R_ID) REFERENCES RESEARCHER(R_ID),
```

```
    FOREIGN KEY (S_code) REFERENCES SPECIALTY(S_code)
);

CREATE TABLE AUTHORSHIP (
    R_ID INT,
    Paper_ID INT,
    PRIMARY KEY (R_ID, Paper_ID),
    FOREIGN KEY (R_ID) REFERENCES RESEARCHER(R_ID),
    FOREIGN KEY (Paper_ID) REFERENCES ARTICLE(Article_ID)
);
```

Output :

```
mysql> SELECT * FROM ARTICLE;
+------------+-----------------------------------------+------------+-----------------------------------+-------------+-----------------+--------------
------------------+------------+-------------+
| Article_ID | Title                                   | Date_recvd | Text                              | Decision    | Date_of_decision | comment
                 | Issue_num | Original_ID |
+------------+-----------------------------------------+------------+-----------------------------------+-------------+-----------------+--------------
------------------+------------+-------------+
|          1 | The Quantum Theory                      | 2020-01-10 | Text of the quantum theory paper... | Accepted    | 2020-04-01       | Groundbreakin
g work           |          1 |        NULL |
|          2 | Economics of Climate Change             | 2020-02-15 | Text on climate economics...      | Rejected    | 2020-05-10       | Needs more da
ta               |          2 |        NULL |
|          3 | Advances in AI                          | 2020-03-12 | Text on AI advancements...        | Accepted    | 2020-06-15       | Very informat
ive              |          1 |        NULL |
|          4 | Biological Impacts of Pollution         | 2020-04-20 | Text on pollution impacts...      | Under Review | NULL             | NULL
                 |          2 |        NULL |
|          5 | Quantum Computers: The Next Generation | 2020-05-25 | Text on next-gen quantum computers... | Accepted    | 2020-08-05       | Excellent seq
uel to prior works |          1 |          1 |
|          6 | The Future of Renewable Energy          | 2020-06-30 | Text about renewable energy future... | Accepted    | 2020-09-20       | Very promisin
g                |          2 |        NULL |
|          7 | Nanotechnology in Medicine              | 2020-07-15 | Text about nanotech in medicine...  | Under Review | NULL             | NULL
                 |          1 |        NULL |
|          8 | Statistical Methods in Genetics         | 2020-08-10 | Text on genetics and statistics...  | Rejected    | 2020-11-01       | Unconvincing
arguments        |          2 |        NULL |
|          9 | Astrophysics and Cosmology              | 2020-09-05 | Text on astrophysics...           | Accepted    | 2020-12-15       | Adds to the f
ield significantly |          1 |        NULL |
|         10 | Cybersecurity Trends                    | 2020-10-20 | Text on cybersecurity...          | Under Review | NULL             | NULL
                 |          2 |        NULL |
|         11 | Robotics and Automation                 | 2020-11-25 | Text on robotics...               | Accepted    | 2021-01-10       | Very detailed
 and precise     |          1 |        NULL |
|         12 | Sociological Effects of Pandemics       | 2020-12-30 | Text on pandemics...              | Rejected    | 2021-02-20       | Lacks depth
                 |          2 |        NULL |
|         13 | Quantum Mechanics and Reality           | 2021-01-15 | Text on quantum mechanics...      | Accepted    | 2021-03-01       | Philosophical
 and profound    |          1 |        NULL |
|         14 | The Psychology of Investing             | 2021-02-10 | Text on investing psychology...   | Under Review | NULL             | NULL
                 |          2 |        NULL |
|         15 | Evolutionary Biology Today              | 2021-03-20 | Text on evolutionary biology...   | Accepted    | 2021-05-30       | New insights
into evolution   |          1 |        NULL |
+------------+-----------------------------------------+------------+-----------------------------------+-------------+-----------------+--------------
------------------+------------+-------------+
```

```
mysql> SELECT * FROM ISSUE;
+-----------+------------+-----------------+---------------+
| Issue_num | Issue_date | Issue_num_pages | Title         |
+-----------+------------+-----------------+---------------+
|         1 | 2020-01-01 |             100 | Issue 1 Title |
|         2 | 2020-02-01 |             100 | Issue 2 Title |
+-----------+------------+-----------------+---------------+
2 rows in set (0.00 sec)
```

Part 3: SQL Queries (45 points)

1. List the titles of all articles received in 2023.

```
SELECT Title FROM ARTICLE WHERE YEAR(Date_recvd) = 2023;
```

Output :

```
mysql> SELECT Title FROM ARTICLE WHERE YEAR(Date_recvd) = 2023;
+---------------------------------+
| Title                           |
+---------------------------------+
| Future of Quantum Computing     |
| AI in Healthcare                |
| Renewable Energy Sources        |
| Data Security in Cloud Computing |
| Robotic Automation Trends       |
+---------------------------------+
5 rows in set (0.00 sec)
```

2.Find the names of all researchers who have written an article about 'Database Systems'.

```
SELECT DISTINCT RESEARCHER.Fname, RESEARCHER.Lname
FROM RESEARCHER
JOIN AUTHORSHIP ON RESEARCHER.R_ID = AUTHORSHIP.R_ID
JOIN ARTICLE ON AUTHORSHIP.Paper_ID = ARTICLE.Article_ID
WHERE ARTICLE.Title LIKE '%Database Systems%';
```

```
mysql> SELECT DISTINCT RESEARCHER.Fname, RESEARCHER.Lname
    -> FROM RESEARCHER
    -> JOIN AUTHORSHIP ON RESEARCHER.R_ID = AUTHORSHIP.R_ID
    -> JOIN ARTICLE ON AUTHORSHIP.Paper_ID = ARTICLE.Article_ID
    -> WHERE ARTICLE.Title LIKE '%Database Systems%';
+-------+---------+
| Fname | Lname   |
+-------+---------+
| Bob   | Johnson |
+-------+---------+
1 row in set (0.00 sec)
```

3.List the articles reviewed by 'John Doe'.

```
SELECT ARTICLE.Title
FROM ARTICLE
JOIN REVIEW ON ARTICLE.Article_ID = REVIEW.Article_ID
JOIN RESEARCHER ON REVIEW.R_ID = RESEARCHER.R_ID
WHERE RESEARCHER.Fname = 'John' AND RESEARCHER.Lname = 'Doe';
```

```
mysql> SELECT ARTICLE.Title
    -> FROM ARTICLE
    -> JOIN REVIEW ON ARTICLE.Article_ID = REVIEW.Article_ID
    -> JOIN RESEARCHER ON REVIEW.R_ID = RESEARCHER.R_ID
    -> WHERE RESEARCHER.Fname = 'John' AND RESEARCHER.Lname = 'Doe';
+-----------------------------+
| Title                       |
+-----------------------------+
| Impact of Database Systems  |
| Database Systems and Big Data |
+-----------------------------+
2 rows in set (0.01 sec)
```

4.Find the number of articles received by each issue.

```sql
SELECT Issue_num, COUNT(*) AS Articles_Count
FROM ARTICLE
GROUP BY Issue_num;
```

```
mysql> SELECT Issue_num, COUNT(*) AS Articles_Count
    -> FROM ARTICLE
    -> GROUP BY Issue_num;
+-----------+----------------+
| Issue_num | Articles_Count |
+-----------+----------------+
|         1 |             14 |
|         2 |              9 |
+-----------+----------------+
2 rows in set (0.01 sec)
```

5.List the authors who have written more than 5 articles.

```sql
SELECT RESEARCHER.Fname, RESEARCHER.Lname
FROM RESEARCHER
JOIN AUTHORSHIP ON RESEARCHER.R_ID = AUTHORSHIP.R_ID
GROUP BY RESEARCHER.R_ID
HAVING COUNT(AUTHORSHIP.Paper_ID) > 5;
```

```
mysql> SELECT RESEARCHER.Fname, RESEARCHER.Lname
    -> FROM RESEARCHER
    -> JOIN AUTHORSHIP ON RESEARCHER.R_ID = AUTHORSHIP.R_ID
    -> GROUP BY RESEARCHER.R_ID
    -> HAVING COUNT(AUTHORSHIP.Paper_ID) > 5;
+-------+--------+
| Fname | Lname  |
+-------+--------+
| Emily | Clark  |
| James | Watson |
+-------+--------+
2 rows in set (0.00 sec)
```

6.Find the most common specialty among authors.

```
SELECT Specialty, COUNT(*) AS Count
FROM AUTHOR
GROUP BY Specialty
ORDER BY Count DESC
LIMIT 1;
```

```
mysql> SELECT Specialty, COUNT(*) AS Count
    -> FROM AUTHOR
    -> GROUP BY Specialty
    -> ORDER BY Count DESC
    -> LIMIT 1;
+--------------+-------+
| Specialty    | Count |
+--------------+-------+
| Data Science |     3 |
+--------------+-------+
1 row in set (0.00 sec)
```

7.List the articles that have not yet been reviewed.

```
SELECT Title
FROM ARTICLE
WHERE Article_ID NOT IN (SELECT Article_ID FROM REVIEW);
```

```
mysql> SELECT Title
    -> FROM ARTICLE
    -> WHERE Article_ID NOT IN (SELECT Article_ID FROM REVIEW);
+-----------------------------------------+
| Title                                   |
+-----------------------------------------+
| The Quantum Theory                      |
| Economics of Climate Change             |
| Advances in AI                          |
| Biological Impacts of Pollution         |
| Quantum Computers: The Next Generation  |
| The Future of Renewable Energy          |
| Nanotechnology in Medicine              |
| Statistical Methods in Genetics         |
| Astrophysics and Cosmology              |
| Cybersecurity Trends                    |
| Robotics and Automation                 |
| Sociological Effects of Pandemics       |
| Quantum Mechanics and Reality           |
| The Psychology of Investing             |
| Evolutionary Biology Today              |
| Future of Quantum Computing             |
| AI in Healthcare                        |
| Renewable Energy Sources                |
| Data Security in Cloud Computing        |
| Robotic Automation Trends               |
| Optimizing Performance in Database Systems |
+-----------------------------------------+
21 rows in set (0.01 sec)
```

8. Find the average number of pages per issue.

```sql
SELECT AVG(Issue_num_pages) AS Average_Pages
FROM ISSUE;
```

```
mysql> SELECT AVG(Issue_num_pages) AS Average_Pages
    -> FROM ISSUE;
+---------------+
| Average_Pages |
+---------------+
|      100.0000 |
+---------------+
1 row in set (0.01 sec)
```

9.List the researchers who have both written and reviewed articles.

```sql
SELECT DISTINCT RESEARCHER.Fname, RESEARCHER.Lname
FROM RESEARCHER
JOIN AUTHORSHIP ON RESEARCHER.R_ID = AUTHORSHIP.R_ID
JOIN REVIEW ON RESEARCHER.R_ID = REVIEW.R_ID;
```

```
mysql> SELECT DISTINCT RESEARCHER.Fname, RESEARCHER.Lname
    -> FROM RESEARCHER
    -> JOIN AUTHORSHIP ON RESEARCHER.R_ID = AUTHORSHIP.R_ID
    -> JOIN REVIEW ON RESEARCHER.R_ID = REVIEW.R_ID;
+-------+--------+
| Fname | Lname  |
+-------+--------+
| Alice | Gordon |
+-------+--------+
1 row in set (0.00 sec)
```

10. Find the titles of articles that have been both accepted and rejected.

```sql
SELECT Title
FROM ARTICLE
WHERE Article_ID IN
    (SELECT Article_ID FROM ARTICLE WHERE Decision = 'Accepted')
AND Article_ID IN
    (SELECT Article_ID FROM ARTICLE WHERE Decision = 'Rejected');
```

```
mysql> SELECT Article_ID, Title, Decision, Date_of_decision FROM ARTICLE WHERE Title LIKE '%Innovative AI Techniques%';
+------------+--------------------------+----------+------------------+
| Article_ID | Title                    | Decision | Date_of_decision |
+------------+--------------------------+----------+------------------+
|         24 | Innovative AI Techniques | Rejected | 2022-02-15       |
|         25 | Innovative AI Techniques | Accepted | 2022-04-20       |
+------------+--------------------------+----------+------------------+
2 rows in set (0.00 sec)
```

11. List the researchers who have a specialty in 'Database Systems'.

```sql
SELECT RESEARCHER.Fname, RESEARCHER.Lname
FROM RESEARCHER
JOIN AUTHOR ON RESEARCHER.R_ID = AUTHOR.R_ID
WHERE AUTHOR.Specialty = 'Database Systems';
```

```
mysql> SELECT RESEARCHER.Fname, RESEARCHER.Lname
    -> FROM RESEARCHER
    -> JOIN AUTHOR ON RESEARCHER.R_ID = AUTHOR.R_ID
    -> WHERE AUTHOR.Specialty = 'Database Systems';
+-------+---------+
| Fname | Lname   |
+-------+---------+
| Bob   | Johnson |
| John  | Doe     |
+-------+---------+
2 rows in set (0.00 sec)
```

12. Find the issues that have more than 50 pages.

```
SELECT Issue_num, Title
FROM ISSUE
WHERE Issue_num_pages > 50;
```

```
mysql> SELECT Issue_num, Title
    -> FROM ISSUE
    -> WHERE Issue_num_pages > 50;
+-----------+---------------+
| Issue_num | Title         |
+-----------+---------------+
|         1 | Issue 1 Title |
|         2 | Issue 2 Title |
+-----------+---------------+
2 rows in set (0.00 sec)
```

13. List the articles that have been reviewed more than twice

```
SELECT ARTICLE.Title
FROM ARTICLE
JOIN REVIEW ON ARTICLE.Article_ID = REVIEW.Article_ID
GROUP BY ARTICLE.Article_ID
HAVING COUNT(REVIEW.Review_ID) > 2;
```

```
mysql> SELECT ARTICLE.Title
    -> FROM ARTICLE
    -> JOIN REVIEW ON ARTICLE.Article_ID = REVIEW.Article_ID
    -> GROUP BY ARTICLE.Article_ID
    -> HAVING COUNT(REVIEW.Review_ID) > 2;
+---------------------------------+
| Title                           |
+---------------------------------+
| Advanced Database Architectures |
+---------------------------------+
1 row in set (0.00 sec)
```

14. Find the researcher with the most articles.

```
SELECT RESEARCHER.Fname, RESEARCHER.Lname
FROM RESEARCHER
JOIN AUTHORSHIP ON RESEARCHER.R_ID = AUTHORSHIP.R_ID
GROUP BY RESEARCHER.R_ID
ORDER BY COUNT(AUTHORSHIP.Paper_ID) DESC
LIMIT 1;
```

```
mysql> SELECT RESEARCHER.Fname, RESEARCHER.Lname
    -> FROM RESEARCHER
    -> JOIN AUTHORSHIP ON RESEARCHER.R_ID = AUTHORSHIP.R_ID
    -> GROUP BY RESEARCHER.R_ID
    -> ORDER BY COUNT(AUTHORSHIP.Paper_ID) DESC
    -> LIMIT 1;
+-------+-------+
| Fname | Lname |
+-------+-------+
| Emily | Clark |
+-------+-------+
1 row in set (0.00 sec)
```

15. List the specialties that have more than 10 researchers.

```sql
SELECT Specialty, COUNT(*) AS Researcher_Count
FROM AUTHOR
GROUP BY Specialty
HAVING COUNT(*) > 10;
```

```
mysql> SELECT Specialty, COUNT(*) AS Researcher_Count
    -> FROM AUTHOR
    -> GROUP BY Specialty
    -> HAVING COUNT(*) > 10;
+--------------+------------------+
| Specialty    | Researcher_Count |
+--------------+------------------+
| Data Science |               14 |
+--------------+------------------+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM RESEARCHER;
+------+---------+--------------+-----------+-------+-------------------------+-------------------+---------------+-------+-------+---------+---------
-----+--------------+-------------------------------------+-----------------------------------------+
| R_ID | Fname   | Middle_Initial | Lname      | Title | Employer                | Address           | City          | State | Zip   | Country | Phone
     | Fax          | Email                               | URL                                     |
+------+---------+--------------+-----------+-------+-------------------------+-------------------+---------------+-------+-------+---------+---------
-----+--------------+-------------------------------------+-----------------------------------------+
|  102 | Bob     | J            | Johnson    | Prof. | University of Data      | 101 Data Dr       | Databurg      | DB    | 10101 | USA     | 321-654-
0987 | 321-654-0988 | bob.johnson@unidata.edu             | www.unidata.edu/bjohnson                |
|  103 | John    | A            | Doe        | Dr.   | Data Science Institute  | 123 Research Blvd | Sciencetown   | SC    | 12345 | USA     | 555-123-
4567 | 555-765-4321 | john.doe@dsinstitute.edu            | www.dsinstitute.edu/johndoe             |
|  104 | Emily   | B            | Clark      | Prof. | Metropolitan University | 456 University Ave | Metrocity     | MC    | 45678 | USA     | 555-678-
1234 | 555-876-4321 | emily.clark@metrouni.edu            | www.metrouni.edu/emilyclark             |
|  105 | James   | C            | Watson     | Dr.   | Historic College        | 789 College St    | Oldtown       | OT    | 78901 | USA     | 555-789-
4561 | 555-964-7512 | james.watson@histcoll.edu           | www.histcoll.edu/jameswatson            |
|  106 | New     | D            | Researcher | Dr.   | New University          | 123 New St        | New City      | NC    | 12345 | USA     | 555-1010
     | 555-2020     | new.researcher@nu.edu               | www.nu.edu/new                          |
|  107 | Another | E            | Scientist  | Prof. | Another University      | 234 Another St    | Another City  | AC    | 23456 | USA     | 555-3030
     | 555-4040     | another.scientist@au.edu            | www.au.edu/another                      |
|  108 | Grace   | F            | Hopper     | Dr.   | Tech Innovations        | 456 Innovation Pkwy | Tech City   | TC    | 45678 | USA     | 555-6789
     | 555-6780     | grace.hopper@techinnovations.com    | www.techinnovations.com/grace           |
|  109 | Alan    | T            | Turing     | Prof. | Computational Sciences  | 789 Compute St    | Compute City  | CC    | 78910 | USA     | 555-9876
     | 555-9870     | alan.turing@compsciences.com        | www.compsciences.com/alan               |
|  110 | Ada     | L            | Lovelace   | Dr.   | Algorithm Research      | 123 Algo Rd       | Algorithm City | AC   | 12345 | USA     | 555-1234
     | 555-1230     | ada.lovelace@algoresearch.com       | www.algoresearch.com/ada                |
|  111 | Alice   | M            | Gordon     | Dr.   | Unified Research        | 100 Unity Dr.     | Unity City    | UC    | 50000 | USA     | 555-4000
     | 555-4001     | alice.gordon@uresearch.com          | www.uresearch.com/alice                 |
|  120 | Alice   | B            | Johnson    | Dr.   | University of Data      | 101 Binary Ln     | Data City     | DC    | 10001 | USA     | 555-0100
     | 555-0101     | alice.johnson@unidata.edu           | http://www.unidata.edu/alice            |
|  121 | Bob     | C            | Lee        | Mr.   | Data Analytics Inc.     | 102 Hex Blvd      | Compute Town  | CT    | 10002 | USA     | 555-0200
     | 555-0201     | bob.lee@analytics.com               | http://www.analytics.com/bob            |
|  122 | Cara    | D            | Martin     | Prof. | Tech Innovate           | 103 Circuit Rd    | Tech City     | TX    | 10003 | USA     | 555-0300
     | 555-0301     | cara.martin@techinnovate.com        | http://www.techinnovate.com/cara        |
|  123 | Dave    | E            | Norris     | Dr.   | Big Data Lab            | 104 Data Dr       | DataVille     | DV    | 10004 | USA     | 555-0400
     | 555-0401     | dave.norris@bigdatalab.com          | http://www.bigdatalab.com/dave          |
|  124 | Eva     | F            | Watson     | Ms.   | Data Solutions          | 105 Algorithm Ave | Data Town     | DT    | 10005 | USA     | 555-0500
     | 555-0501     | eva.watson@datasolutions.com        | http://www.datasolutions.com/eva        |
|  125 | Frank   | G            | Harris     | Mr.   | Cloud Services          | 106 Cloud St      | Cloud City    | CC    | 10006 | USA     | 555-0600
     | 555-0601     | frank.harris@cloudservices.com      | http://www.cloudservices.com/frank      |
|  126 | Grace   | H            | Lee        | Prof. | Machine Learning Inc.   | 107 Tensor Blvd   | Compute City  | CT    | 10007 | USA     | 555-0700
```

```
mysql> SELECT * FROM AUTHOR;
+-------+--------------------+--------------------+
| R_ID | Specialty          | Academic_Rank      |
+-------+--------------------+--------------------+
|  102 | Database Systems   | Senior Researcher  |
|  103 | Database Systems   | Lead DB Analyst    |
|  104 | Data Science       | Senior             |
|  105 | Machine Learning   | Senior             |
|  106 | Data Science       | Junior             |
|  107 | Quantum Computing  | Senior             |
|  108 | Data Science       | Mid-Level          |
|  109 | Cryptography       | Senior             |
|  110 | Machine Learning   | Junior             |
|  120 | Data Science       | Junior             |
|  121 | Data Science       | Junior             |
|  122 | Data Science       | Junior             |
|  123 | Data Science       | Senior             |
|  124 | Data Science       | Senior             |
|  125 | Data Science       | Senior             |
|  126 | Data Science       | Mid-Level          |
|  127 | Data Science       | Mid-Level          |
|  128 | Data Science       | Mid-Level          |
|  129 | Data Science       | Lead               |
|  130 | Data Science       | Lead               |
+-------+--------------------+--------------------+
20 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM ARTICLE;
+-----------+-----------------------------------------+-----------+-----------------------------------------------------------------------------------------------------+-------
-------+-----------------+-----------------------------------------+-----------+-------------+
| Article_ID | Title                                  | Date_recvd | Text                                                                                                | Decisi
on     | Date_of_decision | comment                                 | Issue_num | Original_ID |
+-----------+-----------------------------------------+-----------+-----------------------------------------------------------------------------------------------------+-------
-------+-----------------+-----------------------------------------+-----------+-------------+
|         1 | The Quantum Theory                     | 2020-01-10 | Text of the quantum theory paper...                                                                 | Accept
ed     | 2020-04-01       | Groundbreaking work                     |         1 |        NULL |
|         2 | Economics of Climate Change            | 2020-02-15 | Text on climate economics...                                                                        | Reject
ed     | 2020-05-10       | Needs more data                         |         2 |        NULL |
|         3 | Advances in AI                         | 2020-03-12 | Text on AI advancements...                                                                          | Accept
ed     | 2020-06-15       | Very informative                        |         1 |        NULL |
|         4 | Biological Impacts of Pollution        | 2020-04-20 | Text on pollution impacts...                                                                        | Under
Review | NULL             | NULL                                    |         2 |        NULL |
|         5 | Quantum Computers: The Next Generation | 2020-05-25 | Text on next-gen quantum computers...                                                               | Accept
ed     | 2020-08-05       | Excellent sequel to prior works         |         1 |           1 |
|         6 | The Future of Renewable Energy         | 2020-06-30 | Text about renewable energy future...                                                               | Accept
ed     | 2020-09-20       | Very promising                          |         2 |        NULL |
|         7 | Nanotechnology in Medicine             | 2020-07-15 | Text about nanotech in medicine...                                                                  | Under
Review | NULL             | NULL                                    |         1 |        NULL |
|         8 | Statistical Methods in Genetics        | 2020-08-10 | Text on genetics and statistics...                                                                  | Reject
ed     | 2020-11-01       | Unconvincing arguments                  |         2 |        NULL |
|         9 | Astrophysics and Cosmology             | 2020-09-05 | Text on astrophysics...                                                                             | Accept
ed     | 2020-12-15       | Adds to the field significantly         |         1 |        NULL |
|        10 | Cybersecurity Trends                   | 2020-10-20 | Text on cybersecurity...                                                                            | Under
```

```
mysql> SELECT * FROM REVIEW;
+-----------+-------------+---------------+---------------+-----------------------------------------------------------+-------------+------------+------+
| Review_ID | Date_sent   | Date_reminded | Date_received | Text_of_review                                            | Decision    | Article_ID | R_ID |
+-----------+-------------+---------------+---------------+-----------------------------------------------------------+-------------+------------+------+
|         1 | 2023-01-01  | 2023-01-15    | 2023-01-20    | Detailed analysis provided.                               | Accepted    |         21 |  103 |
|         2 | 2023-02-01  | 2023-02-15    | 2023-02-20    | Requires more data on the topic.                          | Rejected    |         22 |  103 |
|        10 | 2023-05-01  | 2023-05-15    | 2023-05-20    | Excellent analysis and depth.                             | Accepted    |         21 |  111 |
|        11 | 2022-04-01  | 2022-04-10    | 2022-04-15    | Needs more detail on scalability aspects.                 | Under Review |         28 |  102 |
|        12 | 2022-04-16  | 2022-04-25    | 2022-04-30    | Consider adding more case studies.                        | Under Review |         28 |  103 |
|        13 | 2022-05-05  | 2022-05-15    | 2022-05-20    | Well-written but requires updates on recent technologies. | Under Review |         28 |  104 |
+-----------+-------------+---------------+---------------+-----------------------------------------------------------+-------------+------------+------+
6 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM ISSUE;
+-----------+------------+------------------+----------------+
| Issue_num | Issue_date | Issue_num_pages | Title          |
+-----------+------------+------------------+----------------+
|         1 | 2020-01-01 |             100 | Issue 1 Title |
|         2 | 2020-02-01 |             100 | Issue 2 Title |
+-----------+------------+------------------+----------------+
2 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM AUTHORSHIP;
+------+----------+
| R_ID | Paper_ID |
+------+----------+
|  104 |        1 |
|  104 |        2 |
|  104 |        3 |
|  104 |        4 |
|  104 |        5 |
|  104 |        6 |
|  105 |        7 |
|  105 |        8 |
|  105 |        9 |
|  105 |       10 |
|  105 |       11 |
|  105 |       12 |
|  102 |       21 |
|  111 |       21 |
|  102 |       22 |
|  102 |       23 |
+------+----------+
16 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM SPECIALTY;
+--------+-------------------------------------------------------------------+
| S_code | comment                                                           |
+--------+-------------------------------------------------------------------+
|    101 | Data Science - The science of data analysis.                      |
|    102 | Machine Learning - Algorithms and statistical models.             |
|    103 | Quantum Computing - Computing using quantum-mechanical phenomena. |
|    104 | Cryptography - The practice of secure communication.              |
+--------+-------------------------------------------------------------------+
4 rows in set (0.01 sec)
```