

Database Project Report:

Short Story Index

By Group 4:

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Section 1) Introduction

We are building a supporting database for indexing short stories, showing the various individuals and corporate entities responsible for creating, distributing, and publishing short stories. This business-facing database would model how their interactions form the publication process and history of short stories. Our main users would be literary professionals creating anthologies or academics searching for specific information.

Section 2)

A) User Requirements

This index should empower publishers and editors to conduct legal rights management of short stories. By using information such as authors, agents, publishers, publications, genres, etc, publishers can search for short stories to procure for anthologies, tracking short stories to their writers. In the industry, there are several types of legal rights related to ownership and the use of short stories and multiple owners. Over time, the various legal rights can change hands many times and become difficult to track and authenticate. The industry has been known to mistake several versions for original and procure the right related to the reproductions. By documenting the publication process for short stories, this database should enable tracking down the legal rights and point people for acquisition.

It is important to note that this database would not be limited to rights management alone. This database should also simplify searching the wide array of information and short stories available, allowing publishers to find rights more easily and even discover more specific stories related to their work, thus improving their writing resources. Since many aspiring authors start by submitting short stories, the sheer volume is overwhelming for anyone and many stories are left undiscovered or undervalued. A new way to organize fiction that would have never been

seen will now be an available resource by connecting them to other stories, illustrated by common publications, themes, or recommendations. As such, this database could also be used for academic research and general education in writing and reading classes. For instance, upon knowing the title of a certain short story, a user could search the database for what anthologies or collections it was published in as well as find the editors and authors of those publications and the specific or many themes and genres it was compiled under along with other stories. A business-focused user would use this information to know whether a similar anthology idea with the particular short story has already been done. For general public users on an open website index or through a specific publishing or literary company, they could discover new short stories they might like to read or republish based on preferred themes and genres, favorite authors and anthologies, or even by more granular recommendation categorization.

The contact and financial information included in this database will bring publishers, editors, writers, and other interested parties together, facilitating collaboration and the production of new short stories. The business information can empower decision making, allowing users to make informed decisions about how to sell and market short fiction. Agents can find author clients suited to their skills and vice versa. Professionals or aspiring professionals in the publishing field can find other professionals to ease networking and collaboration.

B) Business Rules

Short stories can be published in magazines, books, websites, and other publications by editors and authors. Short stories may have a theme and genre corresponding to the compiled anthology or collection written by an author. The general public or employees of a literary company would use the short story index by mainly searching for titles, authors, editors, themes, genres, or publications. Stories are given qualitative descriptions using theme and genre entities,

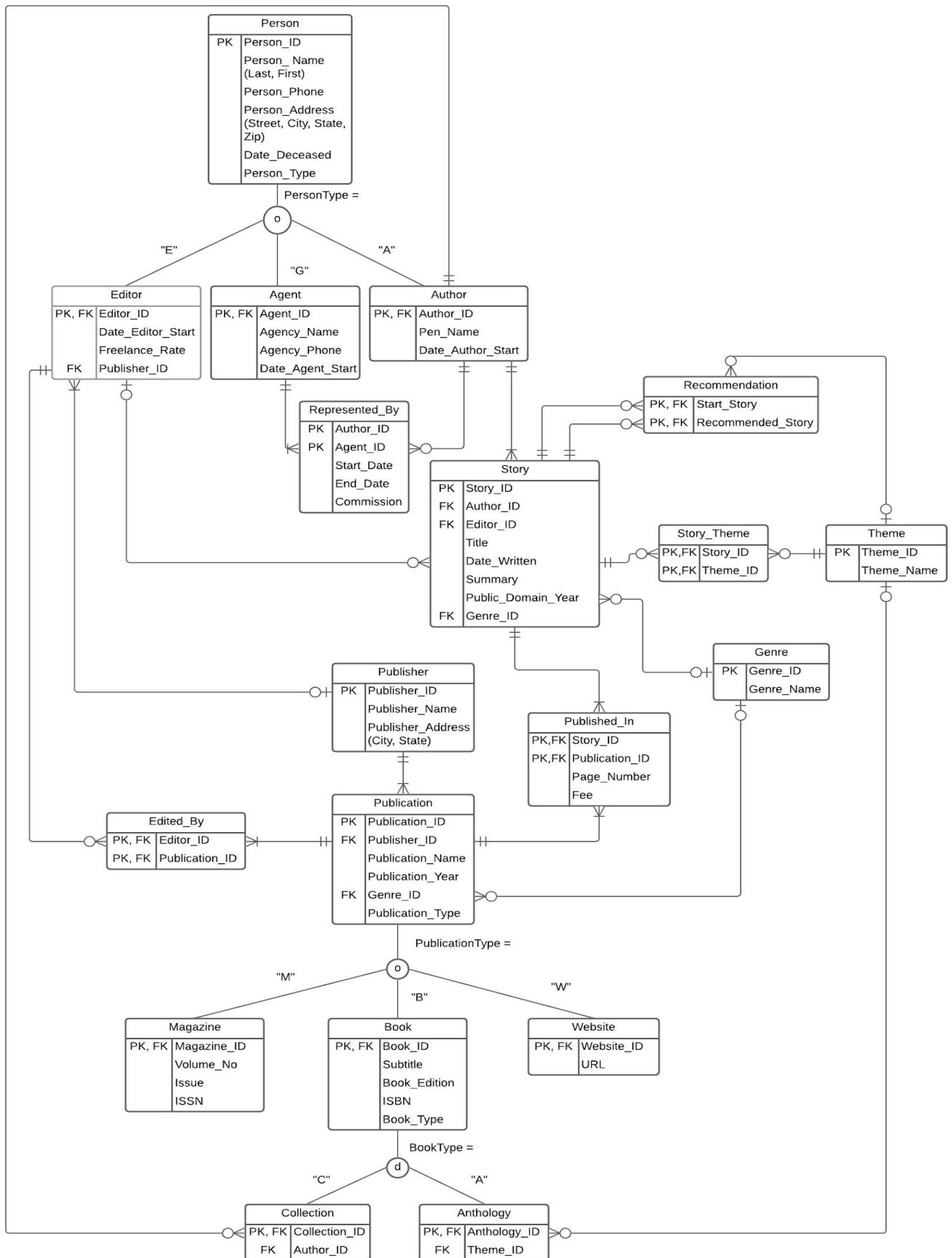
describing the subject matter and stylistic form of the piece respectively, as well as with a recommendation entity that pairs similar stories together. A story may have several themes, but only one genre descriptor.

Stakeholders in the publication process are recognized in the database as persons. There are three roles people in this database may take on: authors, editors, and agents. People may serve different roles over time; for example, an author might be hired as an editor or choose to represent other authors as an agent, or an agent or editor might publish their short fiction. For this database's purposes, authors write short stories, occasionally under a pseudonym. They are represented by agents. Authors hold intellectual property rights to a short story. Literary Agents manage and represent the Authors' business interests. They may be contacted instead of a writer for business purposes. Agents may be employed by literary agencies with their contact information. Editors are responsible for preparing a written short story for publication. They may work directly for a publisher or they may work freelance, directly editing a story. Those editors that work freelance will have their freelance rate listed here.

Publications are recognized by publishers and publications. Publishers are individuals or corporate bodies that produce publications. Publications include magazines (a generic term for serial publications), websites, and books. Books are further subdivided into anthologies or collections, depending on whether they collate stories by single authors or many.

Section 3)

A) EERD



B) Data Dictionary**AGENT**

Agent		Literary agents manage and represent authors' business interests.
Agent	Agent_ID	The PersonID found in the Person entity uniquely identifying the individual agent
Agent	Agency_Name	The literary agency the agent is currently associated with
Agent	Agency_Phone	The phone number of the above literary agency
Agent	Date_Agent_Start	The date the individual started working as an agent. This is meant to describe an individual's career if they take on multiple roles.

ANTHOLOGY

Anthology		An anthology is a book of short stories written by several authors organized around a theme or genre, rarely both.
Anthology	Anthology_ID	The Book_ID found in the Book and Publication entities uniquely identifying the individual anthology
Anthology	Theme_ID	The Theme_ID corresponding to the common idea unifying the stories collated in the anthology. Anthologies may also be organized around genres, which is found in the main Publication entity

AUTHOR

Author		For this database's purposes, authors write short stories, occasionally under a pseudonym.
Author	Author_ID	The PersonID found in the Person entity uniquely identifying the individual author
Author	Pen_Name	The author's primary pseudonym. Their "real name" is found in the Person entity. If the author's real name is not known, then the pseudonym is used in the Person entity as their name.
Author	Date_Author_Start	The date of the author's first publication. This may be the earliest date they published a short story, but not necessarily.

BOOK

Book		A book is a medium for recording and conveying written information. Our database includes books containing short fiction.
Book	Book_ID	The Publication_ID found in the Publication entity uniquely identifying the individual book
Book	Subtitle	A secondary/subordinate title for the book, if applicable
Book	Book_Edition	The edition statement for the book described in this publication instance
Book	Book_Type	A code identifying the kind of book the instance describes. The codes are as follows: A - Anthology C - Collection

COLLECTION

Collection		A collection is a book of short stories written by a single author.
Collection	Collection_ID	The Book_ID found in the Book entity uniquely identifying the individual collection
Collection	Author_ID	The Author_ID corresponding to the author of all the stories collated in the collection

EDITED BY

Edited_By		This entity describes the relationship between editors and publications. Editors may edit several publications over the course of their careers. A given publication may have several editors.
Edited_By	Editor_ID	The Person_ID in the Person entity corresponding to the editor of the publication
Edited_By	Publication	The Publication_ID corresponding to the publication described in the relationship

EDITOR

Editor		Editors are responsible for preparing a written short story for publication.
Editor	Editor_ID	The PersonID found in the Person entity uniquely identifying the individual editor
Editor	Date_Editor_Start	The date the Person began to edit professionally
Editor	Freelance_Rate	The rate the editor charges for their freelance work
Editor	Publisher_ID	The PublisherID uniquely identifying the Editor's current Publisher employer, should they have one

GENRE

Genre		A genre is a set of stylistic conventions a story might belong to.
Genre	Genre_ID	A unique identification number for each genre described in the database
Genre	Genre_Name	The general term by which the genre is known

MAGAZINE

Magazine		This entity describes individual issues of serial publications.
Magazine	Magazine_ID	The Publication_ID found in the Publication entity uniquely identifying the individual magazine issue
Magazine	Volume_No	The volume number for the individual serial issue
Magazine	Issue	The issue number for the individual serial issue
Magazine	ISSN	The International Standard Serial Number for the individual serial issue

PERSON

Entity	Attribute	Description
Person		This entity holds the relevant information about individual people in the database, in particular their contact information. The contact information used will be their last known information, or in the case of notable deceased individuals, the contact information for their estate
Person	Person_ID	A unique identification number for each person in the database
Person	Person_Name (Last, First)	The last (family) and first (given) name of the person in the database. Writers with single names or anonymous authors will use the last name attribute, leaving the first null.
Person	Person_Phone	The person's ten digit phone number
Person	Person_Address (Street, City, State, Zip)	The person's mailing address.
Person	Date_Deceased	The date the author passed away
Person	Person_Type	A code identifying the role(s) the person plays in the publication process for short stories. This may be a composite code, since an individual may take on several roles over their careers. For example, an editor who publishes a short story will have a PersonType of AE The codes are as follows: A - Author G - Agent E - Editor

PUBLICATION

Publication		For this database's purposes, a publication is a written work that contains one or more short stories. There are several kinds of publications described in this database: magazines, websites, and books.
Publication	Publication_ID	A unique identification number for each publication in the database
Publication	Publisher_ID	The Publisher_ID corresponding to the corporate body responsible for producing the publication
Publication	Publication_Name	The name or title of the publication. In the case of serial publications like Magazines or Websites, this is the masthead name of the publication. In the case of individual publications, i.e. books, this is the main title
Publication	Publication_Year	The official publication date of the publication
Publication	Genre_ID	The primary genre the publication is associated with, if it has one
Publication	Publication_Type	A code identifying the kind of publication the instance describes. This may be a composite code, primarily in the case where a story published in a magazine is also published on the magazine website. The codes are as follows: M - Magazine B - Book W - Website MW - Magazine website

PUBLISHED_IN

Published_In		This entity holds the relationship between stories and publications. A given publication may include many short stories, and stories may be republished in several different publications.
Published_In	Story_ID	The Story_ID corresponding to the story described in the Published_In relationship
Published_In	Publication_ID	The Publication_ID corresponding to the publication described in the Published_In relationship
Published_In	Page_Number	The page number on which the story can be found in the publication, if applicable
Published_In	Fee	The fee paid to the author by the publisher for the story's publication, if known

PUBLISHER

Publisher		A publisher is typically a corporate body that publishes written material, in this case short fiction.
Publisher	Publisher_ID	A unique identification number for each publisher in the database
Publisher	Publisher_Name	The name of the publisher
Publisher	Publisher_Address (City, State)	The address for the publisher. Only the city and the state are recorded in the database

RECOMMENDATION

Recommendation		This entity would be a prototype demonstrating thematic connections between short stories for possible marketing or social websites like Goodreads or Novelist. It relates two stories that either have similar readership or have common thematic material.
Recommendation	Start_Story	The primary story to which the secondary story is related in the recommendation relationship
Recommendation	Recommended_Story	The secondary story related to the primary story in the recommendation relationship

REPRESENTED_BY

RepresentedBy		This entity holds the relationship between authors and agents. Authors may be represented by several different agents over the course of their careers.
RepresentedBy	Author_ID	The PersonID identifying the Author in the representation relationship
RepresentedBy	Agent_ID	The PersonID identifying the Agent in the representation relationship
RepresentedBy	Start_Date	The date the Author and the Agent began their representation relationship
RepresentedBy	End_Date	The date the Author and the Agent ended their representation relationship

STORY

Story		Published short fiction pieces written by individual authors. Unpublished short fiction is beyond this database's scope
Story	Story_ID	A unique identification number for each story in the database
Story	Author_ID	The Person_ID corresponding to the writer of the story
Story	Editor_ID	The Person_ID corresponding to the direct editor of the story, if it has one.
Story	Title	The story's original title
Story	Date_Written	The date the story is written
Story	Summary	A brief synopsis of the story
Story	Public_Domain_Year	The year the story entered or will enter the public domain
Story	Genre_ID	The Genre_ID corresponding to the story's genre

STORY_THEME

Story_Theme		This entity describes the various themes a story might have. A story likely has several such themes and a given theme might belong to several stories.
Story_Theme	Story_ID	The Story_ID corresponding to the Story described in this story-theme relationship
Story_Theme	Theme_ID	The Theme_ID corresponding to the Theme described in this story-theme relationship

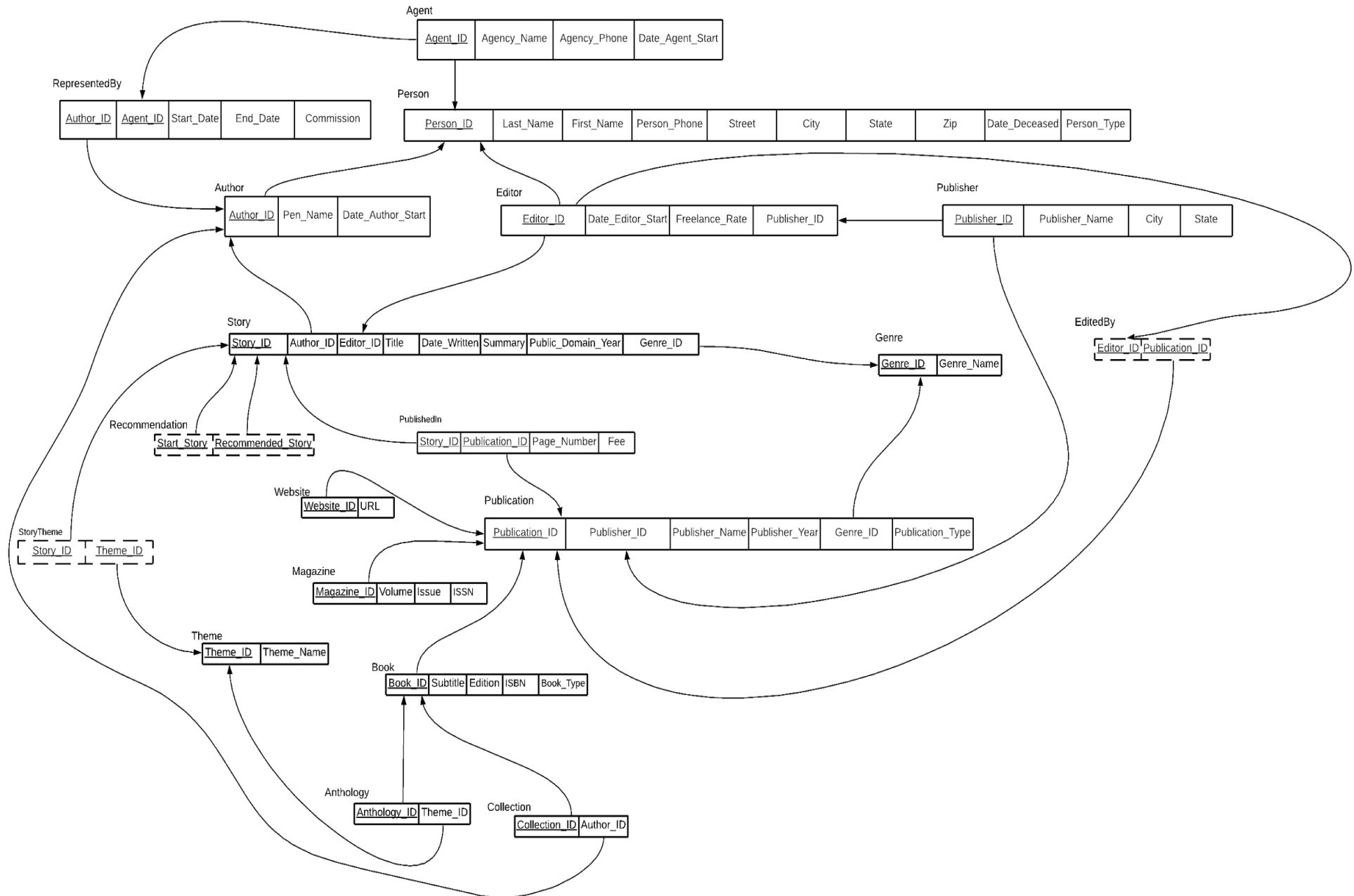
THEME

Theme		A theme might describe a setting, period in time, a subject of the story, country of origin, or any other distinguishing subject matter of a story.
Theme	Theme_ID	A unique identification number for each theme described in the database
Theme	Theme_Name	A brief description of the theme

WEBSITE

Website		A short story may be published on an internet publication, found at a particular URL
Website	Website_ID	The Publication_ID found in the Publication entity uniquely identifying the website
Website	URL	The specific URL for the story

Section 4) Third Normal Form Relation Tables



Section 5) Creation Script

Refer to the attached creation script file.

Section 6) Table Description and Contents

Agents

Name	Null?	Type
AGENT_ID	NOT NULL	NUMBER(38)
AGENCY_NAME		VARCHAR2(30)
AGENCY_PHONE		NUMBER(10)
DATE_AGENT_START		DATE

	AGENT_ID	AGENCY_NAME	AGENCY_PHONE	DATE_AGENT_START
1	2	Oliphant and Co.	2459638854	19-AUG-02
2	4	(null)	(null)	17-NOV-04
3	25	Steven Rowley Co.	2459630954	29-FEB-92

Anthology

Name	Null?	Type
ANTHOLOGY_ID	NOT NULL	NUMBER(38)
THEME_ID		NUMBER(38)

	ANTHOLOGY_ID	THEME_ID
1	5	5

Author

Name	Null?	Type
AUTHOR_ID	NOT NULL	NUMBER(38)
PEN_NAME		VARCHAR2(30)
DATE_AUTHOR_START		DATE

	AUTHOR_ID	PEN_NAME	DATE_AUTHOR_START
1	1	(null)	19-FEB-96
2	5	(null)	01-JAN-21
3	9	CATHERYNNNE M. VALENTE	18-MAR-00
4	12	(null)	24-FEB-17
5	14	(null)	25-MAY-65
6	21	(null)	15-FEB-26

Book

Name	Null?	Type
BOOK_ID	NOT NULL	NUMBER(38)
SUBTITLE		VARCHAR2(30)
BOOK_EDITION		VARCHAR2(20)
ISBN		NUMBER(13)
BOOK_TYPE		CHAR(1)

	BOOK_ID	SUBTITLE	BOOK_EDITION	ISBN	BOOK_TYPE
1	3	(null)	2nd	564429937	C
2	5	(null)	2011	914567342	A
3	8	(null)	(null)	9780140184495	C

Collection

Name	Null?	Type
COLLECTION_ID	NOT NULL	NUMBER(38)
AUTHOR_ID		NUMBER(38)

	COLLECTION_ID	AUTHOR_ID
1	3	5
2	8	14

Edited By

Name	Null?	Type
EDITOR_ID	NOT NULL	NUMBER(38)
PUBLICATION_ID	NOT NULL	NUMBER(38)

	EDITOR_ID	PUBLICATION_ID
1	3	1
2	6	3
3	7	2
4	8	2
5	10	6
6	11	5
7	13	7
8	15	8
9	17	9
10	23	21
11	24	22

Editor

Name	Null?	Type
EDITOR_ID	NOT NULL	NUMBER(38)
DATE_EDITOR_START		DATE
FREELANCE_RATE		NUMBER(38)
PUBLISHER_ID		NUMBER(38)

	EDITOR_ID	DATE_EDITOR_START	FREELANCE_RATE	PUBLISHER_ID
1	2	19-AUG-02	20	(null)
2	3	19-MAR-96	(null)	1
3	6	15-JUN-14	(null)	2
4	7	12-SEP-27	(null)	1
5	8	12-SEP-27	(null)	1
6	11	(null)	(null)	(null)
7	10	29-OCT-10	(null)	5
8	13	12-JAN-17	(null)	(null)
9	15	25-MAY-65	(null)	(null)
10	22	23-MAR-85	(null)	(null)
11	23	04-JUL-96	(null)	(null)
12	24	04-JUL-96	(null)	(null)
13	17	04-AUG-21	(null)	8

Genre

```

Name          Null?     Type
-----
GENRE_ID      NOT NULL  NUMBER(38)
GENRE_NAME    NOT NULL  VARCHAR2(30)

```

	GENRE_ID	GENRE_NAME
1	1	Science Fiction
2	14	Fiction
3	22	Romance
4	2	Horror Fiction

Magazine

```

Name          Null?     Type
-----
MAGAZINE_ID   NOT NULL  NUMBER(38)
VOLUME_NO     NUMBER(38)
ISSUE         VARCHAR2(24)
ISSN          NUMBER(8)

```

	MAGAZINE_ID	VOLUME_NO	ISSUE	ISSN
1	1	2020	November 30	123
2	2	1927	August	345
3	3	2017	January/February	(null)
4	4	1965	April	(null)
5	6	(null)	December	(null)
6	21	1896	September 03	136
7	22	1927	August 09	445
8	5	(null)	August	(null)

Person

Name	Null?	Type
PERSON_ID	NOT NULL	NUMBER(38)
LAST_NAME		VARCHAR2(30)
FIRST_NAME		VARCHAR2(30)
PERSON_PHONE		NUMBER(10)
ADDRESS_STREET		VARCHAR2(30)
ADDRESS_CITY		VARCHAR2(30)
ADDRESS_STATE		VARCHAR2(30)
ADDRESS_ZIP		NUMBER(38)
DATE_DECEASED		DATE
PERSON_TYPE		VARCHAR2(3)

PERSON_ID	LAST_NAME	FIRST_NAME	PERSON_PHONE	ADDRESS_STREET	ADDRESS_CITY	ADDRESS_STATE	ADDRESS_ZIP	DATE_DECEASED	PERSON_TYPE
1	1 Lockwood	Patrica	2222222222	12 Hummingbird Lane	New York City	NY	11111 (null)		A
2	2 Oliphant	Timothy	123456888	10 Lily Avenue	New York City	NY	11111 (null)		EG
3	3 Treisman	Deborah	7305468888	45 Treewood Avenue	New York City	NY	11111 (null)		E
4	4 Mainstay	Brooke	4444444444	11 Seventeenth Street	New York City	NY	11111 (null)		G
5	5 Hemingway	Ernest	5764392231	17 River Forest Circle	Oak Park	IL	60301	02-JUL-61	A
6	6 Perkins	Maxwell	8435529874	24 Alabaster Road	Ketchum	ID	83353	19-JUN-47	E
7	7 McDonald	Maria	2917435566	33 Ring Circle	Union City	NJ		7087 04-MAR-87	E
8	8 Jolas	Eugene	2917435565	33 Ring Circle	Union City	NJ		7087 26-MAY-62	E
9	9 Valente	Catherynne	4728937472	27 Washington Drive	Seattle	WA	98101 (null)		A
10	10 Thomas	Michael	7473552649	31 Phoenix Lane	Urbana	IL	61802 (null)		E
11	11 Maxwell	James	(null)	(null)	(null)	IL	61802 (null)		E
12	12 Coates	Ta-Nehisi	2345678945	31 Trusel Lane	New York City	NY	45678 (null)		A
13	13 James	Thomas	4567889053	14 Whistel RD	New York City	NY	5655 (null)		A
14	14 Baldwin	James	8765465465	22 Rockwell Rd	Buffalo	NY	66666 (null)		A
15	15 Bronze	Jacob	3953843948	44 Jonel Lane	New Britian	CT	88888 (null)		A
16	16 Smith	Lilian	8930987897	67 Willow St	New Jersey	NJ	99999 (null)		A
17	21 Poe	Edgar Allan	9999887798	15 Amazing Street	Boston	Massachusetts	2101	19-JAN-09	A
18	22 Lowell	James Russell	9999347798	25 Prospect Street	Cambridge	Massachusetts	2114 (null)		E
19	23 Carter	Robert	9599347798	32 North Parking Line	Albany	New York	12084 (null)		E
20	24 Harrap	George G.	9596347798	4 North city Road	London	United Kingdom	83746 (null)		E
21	25 Rowley	Steven	(null)	(null)	(null)	(null)	(null)	09-AUG-77	G
22	17 Editors of the Saturday Post	NULL	7563490215	16 Mapleleaf Drive	Indianapolis	IN	46077 (null)		E

Publication

```

Name                Null?   Type
-----
PUBLICATION_ID      NOT NULL NUMBER(38)
PUBLISHER_ID         NUMBER(38)
PUBLICATION_NAME     NOT NULL VARCHAR2(30)
PUBLICATION_YEAR     NUMBER(38)
GENRE_ID             NUMBER(38)
PUBLICATION_TYPE     VARCHAR2(30)

```

	❖ PUBLICATION_ID	❖ PUBLISHER_ID	❖ PUBLICATION_NAME	❖ PUBLICATION_YEAR	❖ GENRE_ID	❖ PUBLICATION_TYPE
1	1	1	The New Yorker	2020	(null)	MW
2	2	1	The New Yorker	1927	(null)	M
3	3	2	Men Without Women	1927	(null)	B
4	4	3	Weber University Archive	2016	(null)	W
5	5	4	Best American Short Fiction	2011	(null)	B
6	6	5	Uncanny Magazine	2015	1	W
7	7	6	The Atlantic	2017	(null)	MW
8	8	7	Going to Meet the Man	1965	(null)	B
9	21	1	The New Yorker	2020	(null)	MW
10	22	1	Esquire	1927	(null)	MW
11	9	8	United States Saturday Post	1843	(null)	M
12	10	9	The Gift	1842	(null)	M

Published In

```

Name                Null?   Type
-----
STORY_ID            NOT NULL NUMBER(38)
PUBLICATION_ID      NOT NULL NUMBER(38)
PAGE_NUMBER         NUMBER(38)
FEE                 NUMBER(38)

```

	❖ STORY_ID	❖ PUBLICATION_ID	❖ PAGE_NUMBER	❖ FEE
1	1	1	72	1000
2	2	2	53	20
3	2	3	26	(null)
4	2	4	229	(null)
5	2	5	35	(null)
6	3	6	(null)	200
7	4	7	(null)	(null)
8	5	8	49	(null)
9	5	5	36	1500
10	21	5	98	500
11	22	4	47	200
12	22	5	64	(null)
13	6	9	(null)	(null)
14	7	10	(null)	(null)

Publisher

Name	Null?	Type
PUBLISHER_ID	NOT NULL	NUMBER(38)
PUBLISHER_NAME	NOT NULL	VARCHAR2(30)
PUBLISHER_CITY		VARCHAR2(30)
PUBLISHER_STATE		VARCHAR2(30)

	PUBLISHER_ID	PUBLISHER_NAME	PUBLISHER_CITY	PUBLISHER_S
1	1	Conde Nast	New York City	NY
2	2	Charles Scribners Sons	New York City	NY
3	3	Weber University	Amherst	MA
4	4	Houghton Mifflin Harcourt	New York City	NY
5	5	Michael Damian Thomas	Urbana	IL
6	6	Emerson Collective	Palo Alto	CA
7	7	Dial Press	New York City	NY
8	21	Cybil Wallace	New York City	NY
9	22	Sharon Hsu	New York City	NY
10	23	James Russell Lowell	New York City	NY
11	8	Samuel D. Patterson and Co.	New York City	NY
12	9	Carey and Hart	Philadelphia	PA

Recommendation

Name	Null?	Type
START_STORY	NOT NULL	NUMBER(38)
RECOMMENDED_STORY	NOT NULL	NUMBER(38)

	START_STORY	RECOMMENDED_STORY
1	4	5

Represented_by

Name	Null?	Type
AUTHOR_ID	NOT NULL	NUMBER(38)
AGENT_ID	NOT NULL	NUMBER(38)
START_DATE		DATE
END_DATE		DATE
COMMISSION		NUMBER(38)

	AUTHOR_ID	AGENT_ID	START_DATE	END_DATE	COMMISSION
1	1	2	14-NOV-19	(null)	12
2	1	4	14-NOV-06	12-NOV-19	12
3	21	25	03-FEB-29	(null)	12

Story

```

Name          Null?   Type
-----
STORY_ID      NOT NULL NUMBER(38)
AUTHOR_ID     NOT NULL NUMBER(38)
EDITOR_ID     NUMBER(38)
TITLE         NOT NULL VARCHAR2(50)
DATE_WRITTEN          DATE
SUMMARY              VARCHAR2(200)
PUBLIC_DOMAIN_YEAR    NUMBER(38)
GENRE_ID          NUMBER(38)

```

STORY_ID	AUTHOR_ID	EDITOR_ID	TITLE	DATE_WRITTEN	SUMMARY	PUBLIC_DOMAIN_YEAR	GENRE_ID
1	1	1	2 The Winged Thing	02-JAN-20	A woman travels abroad for an abortion	2080	(null)
2	2	5	6 Hills Like White Elephants	26-MAY-27	A conversation between an American man...	2001	(null)
3	3	9	10 Planet Lion	(null)	(null)	(null)	1
4	4	12	13 My President Was Black	22-JAN-17	(null)	(null)	(null)
5	5	14	15 Going to Meet the Man	25-MAY-65	(null)	(null)	(null)
6	21	21	(null) The Tell-Tale Heart	02-JAN-17	A horror story of mystery and imagination	1956	(null)
7	22	5	(null) The Capital of the World	17-APR-29	The Story around the city New York	2009	(null)
8	6	21	17 The Black Cat	19-AUG-43	Horror story about a cat	1913	2
9	7	21	(null) Eleonora	02-OCT-42	A love story	1912	22

Story Theme

```

Name      Null?   Type
-----
STORY_ID  NOT NULL NUMBER(38)
THEME_ID  NOT NULL NUMBER(38)

```

STORY_ID	THEME_ID
1	1
2	1
3	2
4	2
5	4
6	4
7	5
8	5
9	6
10	7
11	21
12	22

Theme

```

Name          Null?   Type
-----
THEME_ID      NOT NULL NUMBER(38)
THEME_NAME    NOT NULL VARCHAR2(30)

```

	THEME_ID	THEME_NAME
1	1	Abortion
2	2	Freedom
3	3	Relationships
4	4	Travel
5	5	American literature
6	6	Political
7	7	Race
8	21	Horror
9	22	Inspiration
10	8	Love

Website

```

Name          Null?   Type
-----
WEBSITE_ID    NOT NULL NUMBER(38)
URL           VARCHAR2(120)

```

	WEBSITE_ID	URL
1	1	https://www.newyorker.com/magazine/2020/11/30/the-winged-thing
2	4	https://faculty.weber.edu/jyoung/English%202500/Readings%20for%20English%202500/Hills%20Like%20White%20Elephants.pdf
3	5	https://uncannymagazine.com/article/planet-lion/
4	6	https://www.theatlantic.com/magazine/archive/2017/01/my-president-was-black/508793/
5	21	https://americanenglish.state.gov/files/ae/resource_files/the_tell-tale_heart_0.pdf
6	22	https://www.goodreads.com/pt/book/show/17898757-the-capital-of-the-world

Section 7) Query Descriptions

1) Who wrote a story?

An editor reads the story “The Winged Thing” in the New Yorker. She’s taken with the story and thinks it would be a great addition to her annual anthology of feminist fiction.

As such, she’d like to know how to contact either the author or her agent if she has one in order to see if she can acquire it. She would run the following query:

```
SELECT s.Author_ID, p.Last_Name, p.First_Name, Person_Phone, b.Agent_ID, Agent_Name, Agent_Phone, Agency_Name, Agency_Phone
FROM Author a
LEFT JOIN Person p ON a.Author_ID = p.Person_ID
LEFT JOIN Story s ON a.Author_ID = s.Author_ID
LEFT JOIN Represented_By rb ON a.Author_ID = rb.Author_ID
LEFT JOIN (
SELECT Agent_ID, CONCAT(First_Name, Last_Name) Agent_Name, Agency_Name, Agency_Phone, Person_Phone AS Agent_Phone
FROM Agents a
JOIN Person p ON a.Agent_ID = p.Person_ID) b ON rb.Agent_ID = b.Agent_ID
WHERE End_Date IS NULL AND Title = 'The Winged Thing';
```

⚡	AUTHOR_ID	⚡	LAST_NAME	⚡	FIRST_NAME	⚡	PERSON_PHONE	⚡	AGENT_ID	⚡	AGENT_NAME	⚡	AGENT_PHONE	⚡	AGENCY_NAME	⚡	AGENCY_PHONE
1	1		Lockwood		Patrica		222222222		2		TimothyOliphant		123456888		Oliphant and Co.		2459638854

2) Story Publication History

An editor is putting together an anthology including the obscure short story “Hills Like White Elephant” by forgotten writer Ernest Hemingway. He would like to know the publication history of the story so as to write a complete description of the story for the anthology. He would run the following query:

```
SELECT Story_ID, Title, Publication_Name, Publisher_Name, Publication_Year, Fee, Publication_Type
FROM Story s
JOIN Published_In pi USING (Story_ID)
JOIN Publication pb USING (Publication_ID)
JOIN Publisher pr USING (Publisher_ID)
WHERE Title = 'Hills Like White Elephants'
ORDER BY Publication_Year;
```

⚡	STORY_ID	⚡	TITLE	⚡	PUBLICATION_NAME	⚡	PUBLISHER NAME	⚡	PUBLICATION_YEAR	⚡	FEE	⚡	PUBLICATION_TYPE
1	2		Hills Like White Elephants		The New Yorker		Conde Nast		1927		20 M		
2	2		Hills Like White Elephants		Men Without Women		Charles Scribners Sons		1927		(null) B		
3	2		Hills Like White Elephants		Best American Short Fiction		Houghton Mifflin Harcourt		2011		(null) B		
4	2		Hills Like White Elephants		Weber University Archive		Weber University		(null)		(null) W		

3) Table of Contents

In order to find a full table of contents for a particular publication, that is, all the stories published in a single publication, a searcher would run the following query.

```

467 SELECT Title, Page_Number, First_Name || ' ' || Last_Name AS Author_Name
468 FROM Story s
469 JOIN Author a ON s.Author_ID = a.Author_ID
470 JOIN Person p ON a.Author_ID = p.Person_ID
471 JOIN Published_In pi ON s.Story_ID = pi.Story_ID
472 JOIN Publication pb ON pi.Publication_ID = pb.Publication_ID
473 WHERE Publication_Name = 'Best American Short Fiction'
474 ORDER BY Page_Number;

```

	TITLE	PAGE_NUMBER	AUTHOR_NAME
1	Hills Like White Elephants	35	Ernest Hemingway
2	Going to Meet the Man	36	James Baldwin
3	The Capital of the World	64	Ernest Hemingway
4	The Tell-Tale Heart	98	Edgar Allan Poe

4) Stories with Same Theme

An editor is creating an anthology centered on the theme of horror. Running the below query, the editor identified which stories and their authors wrote about the same theme.

```

SELECT Theme_Name, Title, First_Name || ' ' || Last_Name AS Author_Name
FROM Theme t
JOIN Story_Theme st ON t.Theme_ID = st.Theme_ID
JOIN Story s ON st.Story_ID = s.Story_ID
JOIN Author a ON s.Author_ID = a.Author_ID
JOIN Person p ON a.Author_ID = p.Person_ID
WHERE Theme_Name = 'Horror';

```

 SQL | All Rows Fetched: 2 in 0.098 seconds

	THEME_NAME	TITLE	AUTHOR_NAME
1	Horror	The Tell-Tale Heart	Edgar Allan Poe
2	Horror	The Black Cat	Edgar Allan Poe

5) Author's Most Popular Themes

An author can write many short stories that might have the same themes. Sometimes, authors are known for writing certain themes very well. An editor wants to identify Edgar Allan Poe's most popular themes written in order to decide which themed collection to make using the below query.

```
SELECT Theme_Name, COUNT(*) AS Total, RANK() OVER (ORDER BY Theme_Name, COUNT(*)) AS Rank
FROM Theme t
JOIN Story_Theme st ON t.Theme_ID = st.Theme_ID
JOIN Story s ON st.Story_ID = s.Story_ID
JOIN Author a ON s.Author_ID = a.Author_ID
JOIN Person p ON a.Author_ID = p.Person_ID
WHERE First_Name = 'Edgar Allan' and Last_Name = 'Poe'
GROUP BY Theme_Name;
```

	THEME_NAME	TOTAL	RANK
1	Horror	2	1
2	Love	1	2

6) Partial Title Story Lookup

People may not know the full or exact title of a short story and may only remember a part of it. To figure out the title, a user ran the below query in order to find short stories that had the keyword, "Capital" in the title and also retrieved the authors who wrote them.

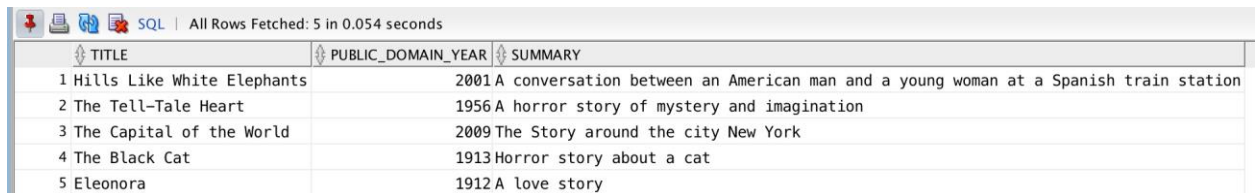
```
SELECT Title, First_Name || ' ' || Last_Name AS Author_Name
FROM Story s
JOIN Author a ON s.Author_ID = a.Author_ID
JOIN Person p ON a.Author_ID = p.Person_ID
WHERE Title LIKE '%Capital%'
ORDER BY Title;
```

	TITLE	AUTHOR_NAME
1	The Capital of the World	Ernest Hemingway

7) Public Domain Stories

Sometimes it is easier to simply use a free short story than to buy one. If a user wishes to find short stories that are free and open to public use, they would need to search for the dates in which stories become legal over periods of time. A person may not know the specifics of the law and could run the following query instead.

```
ALTER SESSION SET NLS_DATE_FORMAT = 'YYYYMMDD';
SELECT Title, Public_Domain_Year, Summary
FROM Story
WHERE TO_NUMBER(TO_CHAR((SELECT SYSDATE FROM DUAL), 'YYYY')) > public_domain_year;
```

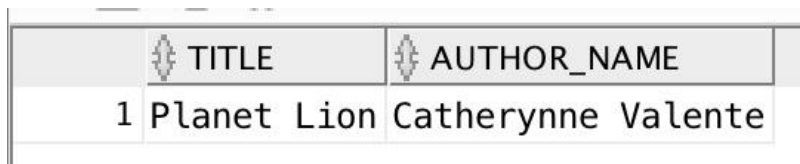


TITLE	PUBLIC_DOMAIN_YEAR	SUMMARY
1 Hills Like White Elephants	2001	A conversation between an American man and a young woman at a Spanish train station
2 The Tell-Tale Heart	1956	A horror story of mystery and imagination
3 The Capital of the World	2009	The Story around the city New York
4 The Black Cat	1913	Horror story about a cat
5 Eleonora	1912	A love story

8) Stories by Genre

Publishers may wish to add pieces to their magazine or website to compliment their main stories and add “filler”. The publisher may wish to look for stories belonging to a certain genre to either add variety or perhaps their whole publication is focused on a niche such as Science Fiction. In order to find all the short stories related to the genre they would run the following query.

```
SELECT Title, First_Name || ' ' || Last_Name AS Author_Name
FROM Story s
JOIN Genre g ON g.Genre_ID = s.Genre_ID
JOIN Author a ON s.Author_ID = a.Author_ID
JOIN Person p ON a.Author_ID = p.Person_ID
WHERE Genre_Name = 'Science Fiction';
```



	TITLE	AUTHOR_NAME
1	Planet Lion	Catherynne Valente

9) Story Recommendations

A user may be interested in a specific story but not know what they are looking for. Or the user may be trying to find related or similar stories. They would run the following query to find new or related short stories.

```
SELECT Title, First_Name || ' ' || Last_Name AS Author_Name, Summary
FROM Story s
JOIN Author a ON s.Author_ID = a.Author_ID
JOIN Person p ON a.Author_ID = p.Person_ID
JOIN Recommendation r ON s.Story_ID = r.Recommended_Story
WHERE Start_Story IN
(SELECT Story_ID
FROM Story
WHERE Title = 'My President Was Black');
```

	TITLE	AUTHOR_NAME	SUMMARY
1	Going to Meet the Man	James Baldwin	(null)

10) Author Publication History

An editor wants to know the complete publication history of Ernest Hemingway's works, he would run the below query to know the stories and the number of times he's been published with publication year as order method.

```
SELECT a.Author_ID, Title, Publication_Name, Publisher_Name, Publication_Year, Publication_Type, Fee
FROM Author a
JOIN Person p ON a.Author_ID = p.Person_ID
JOIN Story s ON a.Author_ID = s.Author_ID
JOIN Published_In pi ON s.Story_ID = pi.Story_ID
JOIN Publication pb ON pi.Publication_ID = pb.Publication_ID
JOIN Publisher pr ON pb.Publisher_ID = pr.Publisher_ID
WHERE Last_Name = 'Hemingway' and First_Name = 'Ernest'
ORDER BY Publication_Year;
```

	AUTHOR_ID	TITLE	PUBLICATION_NAME	PUBLISHER NAME	PUBLICATION_YEAR	PUBLICATION_TYPE	FEE
1	5	Hills Like White Elephants	Men Without Women	Charles Scribners Sons	1927	B	(null)
2	5	Hills Like White Elephants	The New Yorker	Conde Nast	1927	M	20
3	5	The Capital of the World	Best American Short Fiction	Houghton Mifflin Harcourt	2011	B	(null)
4	5	Hills Like White Elephants	Best American Short Fiction	Houghton Mifflin Harcourt	2011	B	(null)
5	5	The Capital of the World	Weber University Archive	Weber University	2016	W	200
6	5	Hills Like White Elephants	Weber University Archive	Weber University	2016	W	(null)

11) Author Representation History

An agent has a question about an author client's past business, but they don't have the author's previous agents' contact information. Not wishing or not able to contact the author, they run the following query:

```
SELECT a.Agent_ID, p.Last_Name, p.First_Name, p.Person_Phone, Agency_Name, Agency_Phone, Start_Date, End_Date
FROM Agents a
JOIN Person p ON a.Agent_ID = p.Person_ID
JOIN Represented_By rb ON a.Agent_ID = rb.Agent_ID
JOIN Author b ON rb.Author_ID = b.Author_ID
WHERE b.Author_ID IN (
  SELECT Person_ID
  FROM Person
  WHERE Last_Name = 'Lockwood' AND First_Name = 'Patricia')
ORDER BY End_Date DESC;
```

	AGENT_ID	LAST_NAME	FIRST_NAME	PERSON_PHONE	AGENCY_NAME	AGENCY_PHONE	START_DATE	END_DATE
1	2	Oliphant	Timothy	123456888	Oliphant and Co.	2459638854	14-NOV-19	(null)
2	4	Mainstay	Brooke	4444444444	(null)	(null)	14-NOV-06	12-NOV-19

12) Unrepresented Authors

A literary agent wants to find some new clients. She needs a list of writers who are unrepresented, so she uses the following query:

```
SELECT Author_ID, Last_Name, First_Name, Pen_Name, Person_Phone
FROM Author
JOIN Person ON Author_ID = Person_ID
WHERE Author_ID NOT IN (
  SELECT Author_ID
  FROM Represented_By
  WHERE End_Date IS NULL)
AND Date_Deceased IS NULL;
```

	AUTHOR_ID	LAST_NAME	FIRST_NAME	PEN_NAME	PERSON_PHONE
1	14	Baldwin	James	(null)	8765465465
2	12	Coates	Ta-Nehisi	(null)	2345678945
3	9	Valente	Catherynne	CATHERYNNNE M. VALENTE	4728937472

13) Calculate Agent's Cut

An agent wants a record of all their earnings from commissions on sold short stories.

They would run the following query:

```
SELECT s.Story_ID, Title, Fee, Commission, Fee * Commission / 100 AS Agent_Cut
FROM Story s
JOIN Published_In pi ON s.Story_ID = pi.Story_ID
JOIN Author a ON s.Author_ID = a.Author_ID
JOIN Represented_By rb ON a.Author_ID = rb.Author_ID
JOIN Agents b ON rb.Agent_ID = b.Agent_ID
JOIN Person p ON b.Agent_ID = p.Person_ID
WHERE (Date_Written BETWEEN Start_Date AND End_Date
OR Date_Written > Start_Date AND End_Date IS NULL)
AND First_Name = 'Timothy' AND Last_Name = 'Oliphant';
```

STORY_ID	TITLE	FEE	COMMISSION	AGENT_CUT
1	1 The Winged Thing	1000	12	120

14) Calculate Story's Age

To calculate how many years since the story was first written.

They will run the query as follows.

```
SELECT s.Story_ID, Title, Date_Written, EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM Date_Written) AS Story_Age
FROM Story s
Where Title = 'Going to Meet the Man';
```

STORY_ID	TITLE	DATE_WRITTEN	STORY_AGE
1	5 Going to Meet the Man	25-MAY-65	55

15) Find Maximum Freelance Rate

This is the query you would use when looking for the maximum freelance rate. This could be useful when quoting freelance editors or fitting a budget for a magazine.

```
SELECT Editor_ID, Last_Name, First_Name, Freelance_Rate
FROM Editor e
JOIN Person p ON e.Editor_ID = p.Person_ID
WHERE Freelance_Rate IN (
SELECT MAX(Freelance_Rate)
FROM Editor);
```

	EDITOR_ID	LAST_NAME	FIRST_NAME	FREELANCE_RATE
1	2	Oliphant	Timothy	20

Section 8) Extra Credit

1) Creating Recommendations

The workflow for creating new recommendations involves selecting common themes on which to relate stories in the Recommendation entity. Only specific themes are considered appropriate for doing so. A database administrator is responsible for populating the Recommendation entity using the theme 'abortion'. She would use the following procedure:

```

DECLARE
    start_story      Recommendation.Start_Story%TYPE;
    recommended_story Recommendation.Recommended_Story%TYPE;
    CURSOR st_cursor_up IS SELECT Story_ID FROM Story_Theme st WHERE Theme_ID = 1 ORDER BY Story_ID ASC;
    CURSOR st_cursor_down IS SELECT Story_ID FROM Story_Theme st WHERE Theme_ID = 1 ORDER BY Story_ID DESC;
BEGIN
    OPEN st_cursor_up;
    OPEN st_cursor_down;
    LOOP
        FETCH st_cursor_up INTO start_story;
        FETCH st_cursor_down INTO recommended_story;
        IF (recommended_story != start_story) THEN
            INSERT INTO Recommendation VALUES (
                start_story,
                recommended_story);
        ELSE NULL;
        END IF;
        EXIT WHEN st_cursor_down%NOTFOUND;
    END LOOP;
    CLOSE st_cursor_up;
    CLOSE st_cursor_down;
END;
```

	START_STORY	RECOMMENDED_STORY
1	4	5
2	1	2
3	2	1

2) Denoting Writers' Career Experience

Some writers have more experience than others, but rather than listing out the exact amount of years they've been writing them they've started, it is more concise to group them into three categories: Old Writers who have written more than 30 years;

Experienced writers who have written more than 10 years; and New Writers which have written for 10 years or less. With this grouping information, editors can make collections and anthologies of well-established or newer writers. To neatly and numerically list and indicate each writers' experience by which group they fall into, editors would run the following procedure:

```


SET SERVEROUTPUT ON;
ALTER SESSION SET NLS_DATE_FORMAT = 'MM-DD-YYYY';

DECLARE
    total_writers NUMBER;
    total_people NUMBER;
    l_count NUMBER;
    current_writer NUMBER := 1;

    author_rec Author%ROWTYPE;
    person_rec Person%ROWTYPE;
    author_number INTEGER := 1;
    CURSOR c1 IS SELECT Author_ID, Pen_Name, Date_Author_Start FROM Author WHERE Author_ID = author_number;
    CURSOR c2 IS SELECT Person_ID, Last_Name, First_Name, Person_Phone, Address_Street, Address_City,
    Address_State, Address_Zip, Date_Deceased, Person_Type FROM Person WHERE Person_ID = author_number;

BEGIN
    SELECT COUNT(*) INTO total_writers FROM Author;
    SELECT COUNT(*) INTO total_people FROM Person;
    dbms_output.put_line('Number of Total Writers: ' || total_writers);
    dbms_output.new_line;
    FOR l_count IN 1..total_people
    LOOP
        author_number := l_count;
        OPEN c1;
        OPEN c2;
        FETCH c1 INTO author_rec;
        FETCH c2 INTO person_rec;
        CLOSE c1;

        IF ((EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM author_rec.Date_Author_Start)) > 30
        AND author_rec.Author_ID = author_number)
        THEN dbms_output.put_line(current_writer || ') ' || person_rec.First_Name || ' ' || person_rec.Last_Name ||
        ' is an Old Writer who started writing on ' || author_rec.Date_Author_Start || '.');
        dbms_output.new_line;
        current_writer := current_writer + 1;
        ELIF ((EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM author_rec.Date_Author_Start)) > 10
        AND author_rec.Author_ID = author_number)
        THEN dbms_output.put_line(current_writer || ') ' || person_rec.First_Name || ' ' || person_rec.Last_Name ||
        ' is an Experienced Writer who started writing on ' || author_rec.Date_Author_Start || '.');
        dbms_output.new_line;
        current_writer := current_writer + 1;
        ELIF (author_rec.Author_ID = author_number)
        THEN dbms_output.put_line(current_writer || ') ' || person_rec.First_Name || ' ' || person_rec.Last_Name ||
        ' is a New Writer who started writing on ' || author_rec.Date_Author_Start || '.');
        dbms_output.new_line;
        current_writer := current_writer + 1;
        END IF;
    END LOOP;
END;
```

 | Task completed in 0.362 seconds

Number of Total Writers: 6

- 1) Patrica Lockwood is an Experienced Writer who started writing on 02-19-1996.
- 2) Ernest Hemingway is an Old Writer who started writing on 01-01-1921.
- 3) Catherynne Valente is an Experienced Writer who started writing on 03-18-2000.
- 4) Ta-Nehisi Coates is a New Writer who started writing on 02-24-2017.
- 5) James Baldwin is an Old Writer who started writing on 05-25-1965.
- 6) Edgar Allan Poe is an Old Writer who started writing on 02-15-1826.