**QUERIES on BookPantry Database**

1. Publishers with ratings more than the average of all ratings of all books

SELECT publisherName, AVG(ratingVal) AS AVG\_Rating, COUNT(bookID) AS 'No of books published'

FROM publishers

JOIN books USING (publisherID)

JOIN books\_has\_languages USING (bookID)

JOIN ratings USING (ISBN)

GROUP BY publisherID

HAVING (AVG(ratingVal) > (SELECT AVG(ratingVal) FROM ratings));

1. Publishers with ratings more than the average of all ratings of all publishers

SELECT publisherName,AVG\_Rating, Books\_Published

FROM

(SELECT publisherName, AVG(ratingVal) AS AVG\_Rating, COUNT(bookID) AS Books\_Published

FROM publishers

JOIN books USING (publisherID)

JOIN books\_has\_languages USING (bookID)

JOIN ratings USING (ISBN)

GROUP BY publisherID) a

GROUP BY publisherName,AVG\_Rating, Books\_Published

HAVING AVG\_Rating > ( SELECT AVG(ratingVal)

FROM publishers

JOIN books USING (publisherID)

JOIN books\_has\_languages USING (bookID)

JOIN ratings USING (ISBN))

ORDER BY AVG\_Rating DESC;

1. Rating of the same book in different languages

SELECT bookID, Book, Language, AVG\_Rating

FROM

(

(

SELECT bookID, book\_title AS Book, languageName AS Language, AVG(ratingVal) AS AVG\_Rating

FROM

books\_has\_languages

JOIN books USING (bookID)

JOIN languages USING (languageID)

JOIN ratings USING (ISBN)

GROUP BY ISBN

)avg\_rating\_ISBN

JOIN

(

SELECT bookID, COUNT(Distinct languageName) as lanCount

FROM

books\_has\_languages

JOIN books USING (bookID)

JOIN languages USING (languageID)

JOIN ratings USING (ISBN)

GROUP BY bookID

)language\_count\_bookID USING (bookID)

)

WHERE lanCount >1;

1. Age of users, Genre, Rating

SELECT

CASE

WHEN TIMESTAMPDIFF(YEAR, userDOB, NOW()) < 18 then 'Under 18'

WHEN TIMESTAMPDIFF(YEAR, userDOB, NOW()) between 19 and 35 then '19-35'

WHEN TIMESTAMPDIFF(YEAR, userDOB, NOW()) between 36 and 55 then '36-55'

WHEN TIMESTAMPDIFF(YEAR, userDOB, NOW()) between 56 and 100 then '56-100'

END AS age\_group, genreName, AVG(ratingVal) as AVG\_Rating

FROM users

JOIN ratings USING(userID)

JOIN books\_has\_languages USING (ISBN)

JOIN books USING (bookID)

JOIN genres USING (genreID)

GROUP BY age\_group, genreName

ORDER BY age\_group, AVG\_Rating DESC;

1. Authors with highest average ratings (Top10)

USE BookPantry;

SELECT DISTINCT CONCAT(authorFirstname, ' ', authorLastname) AS authorName, book\_title,

ROUND(AVG(ratingval),2) AS author\_average\_rating

from authors JOIN authors\_has\_books USING(authorID)

JOIN books USING(bookID)

JOIN books\_has\_languages USING(bookID)

JOIN ratings USING(ISBN)

GROUP BY authorID, ISBN

ORDER BY author\_average\_rating DESC

LIMIT 10;

1. Count of books in each Genre

SELECT genreName AS Genre, COUNT(GenreID) as `No of books`

FROM

Books

JOIN

Genres USING (GenreID)

GROUP BY GenreID

ORDER BY COUNT(GenreID) DESC;

1. Which Publishers had better than average ratings for which Genre?

SELECT DISTINCT publisherName, genreName,

ROUND(AVG(ratingval),2) AS publisher\_max\_avg\_rated\_genre

FROM publishers

JOIN books USING(publisherID)

JOIN genres USING(genreID)

JOIN books\_has\_languages USING(bookID)

JOIN ratings USING(ISBN)

GROUP BY publisherName, genreID

HAVING publisher\_max\_avg\_rated\_genre > (SELECT AVG(ratingval) from ratings)

ORDER BY publisher\_max\_avg\_rated\_genre DESC;

1. INSERT INTO books (bookID,book\_title, price, publisherID, genreID)

VALUES

(2001, 'Harry Potter and the Philosophers Stone',35, 6001,3005),

(DEFAULT, 'A Game of Thrones', 55, 6002, 3001),

(DEFAULT, 'The God of Small Things', 60, 6003, 3005),

(DEFAULT, 'Norwegian Wood Language', 25, 6004, 3004),

(DEFAULT, 'The Pillars of the Earth',30,6005,3006),

(DEFAULT, 'To Kill a Mockingbird',54,6006,3005),

(DEFAULT, 'The Name of the Rose',65,6007,3007),

(DEFAULT, 'One Hundred Years of Solitude', 35,6008,3007),

(DEFAULT, 'Chocolat', 30,6009,3002),

(DEFAULT, 'The House of the Spirits',20,6010,3007),

(DEFAULT, 'Interpreter of Maladies',35,6011,3006),

(DEFAULT, 'A Personal Matter',45,6004,3003),

(DEFAULT, 'The Bonfire of the Vanities',90,6012,3003),

(DEFAULT, 'Half of a Yellow Sun', 55,6013,3005),

(DEFAULT, 'The Communist Manifesto', 78,6014,3004),

(DEFAULT, 'Siddhartha',92,6015,3004),

(DEFAULT, 'Don Quixote',25,6016,3002),

(DEFAULT, 'Never Let Me Go',56,6017,3002),

(DEFAULT, 'The Temple of the Golden Pavilion',22,6018,3005),

(DEFAULT, 'Kafka on the Shore',18,6004,3006),

(DEFAULT, 'Things Fall Apart',34,6019,3006),

(DEFAULT, 'Love in the Time of Cholera',15,6020,3004),

(DEFAULT, 'Mrs Dalloway', 54,6021,3002),

(DEFAULT, 'Ficciones', 34,6022,3002),

(DEFAULT, 'The Metamorphosis',25,6023,3004),

(DEFAULT, 'Midnights Children',55,6024,3004),

(DEFAULT, 'The Remains of the Day', 25,6017,3003),

(DEFAULT, 'Beloved', 44,6018,3002),

(DEFAULT, 'The Sailor Who Fell from Grace with the Sea',33,6018,3003),

(DEFAULT, 'The Namesake',21,6011,3001),

(DEFAULT, 'One Flew Over the Cuckoos',19,6009,3001);

2. INSERT INTO authors (authorID, authorfirstName, authorlastName, NationalityID)

VALUES

(1001, 'J.K', 'Rowling', 5002) ,

(DEFAULT, 'George', 'Martin', 5001) ,

(DEFAULT, 'Arundhati', 'Roy', 5003) ,

(DEFAULT, 'Haruki', 'Murakami', 5004) ,

(DEFAULT, 'Ken', 'Follett', 5002) ,

(DEFAULT, 'Harper', 'Lee', 5001) ,

(DEFAULT, 'Umberto', 'Eco', 5006) ,

(DEFAULT, 'Gabriel', 'Marquez', 5008) ,

(DEFAULT, 'Joanne', 'Harris', 5002) ,

(DEFAULT, 'Isabel', 'Allende', 5010) ,

(DEFAULT, 'Jhumpa', 'Lahiri', 5001) ,

(DEFAULT, 'Kenzaburo', 'Oe', 5004) ,

(DEFAULT, 'Tom', 'Wolfe', 5001) ,

(DEFAULT, 'Chimamanda', 'Adiche',5010) ,

(DEFAULT, 'Karl', 'Marx', 5005) ,

(DEFAULT, 'Hermann', 'Hesse', 5005) ,

(DEFAULT, 'Miguel','Cervantes',5007) ,

(DEFAULT, 'Kazuo', 'Ishiguro', 5002) ,

(DEFAULT, 'Yukio', 'Mishima', 5004) ,

(DEFAULT, 'Chinua', 'Achebe', 5007) ,

(DEFAULT, 'Gabriel', 'Garcia',5010) ,

(DEFAULT, 'Virginia','Woolf',5002) ,

(DEFAULT, 'Jorge', 'Borges',5007) ,

(DEFAULT, 'Toni', 'Morrison', 5001) ,

(DEFAULT, 'Franz', 'Kafka',5007) ,

(DEFAULT, 'Salman','Rushdie',5003) ,

(DEFAULT, 'Ken', 'Kesey',5001);

3. INSERT INTO publishers

(publisherID, publisherName, StreetNoBuildingNo, City, ZipCode, State, countryID)

VALUES (6001,'Bloomsbury Publishing', '3400 TULANE DR', 'London', 'E1 7AY', 'Camden', 5002),

(DEFAULT,'Bantam Spectra', '4021 Franklin DR', 'New York', '10001', 'NY', 5010) ,

(DEFAULT, 'Penguin Books', '674-A 23rd Street', 'London', 'E1 7AB', 'Greenwich', 5002),

(DEFAULT, 'Kodansha', '232 Third St.', 'Tokyo', '20004', 'Tokyo Province', 5004),

(DEFAULT, 'William Morrow and Co', '1745 Broadway ', 'New York', '10001', 'NY', 5001),

(DEFAULT, 'J. B. Lippincott & Co.', '104 S Fifth Street', 'Philadelphia', '19147', 'Philadelphia', 5001),

(DEFAULT, 'Bompiani', '141 5th Ave.', 'Milan', '20007', 'Messina', 5006),

(DEFAULT, 'Editorial Sudamericana', ' Roca 1424', 'Buenos Aires', '20008', 'Eastern Argentina', 5005),

(DEFAULT, 'Viking Press', '19 West 21st Street', 'New York', '10001', 'NY', 5001),

(DEFAULT, 'Plaza & Janés', 'Gral. Roca 4680', 'Barcelona', '20010', 'Barcelona', 5008),

(DEFAULT, 'Houghton Mifflin', '1130 Walnut Street', 'Boston', '2108', 'Massachussetts', 5001),

(DEFAULT, 'Farrar, Straus and Giroux', '420 Fifth Avenue', 'New York', '10001', 'NY', 5001),

(DEFAULT, 'Knopf','343 Lincoln DR', 'New York', '10001', 'NY', 5001),

(DEFAULT, 'Penguin Classics', '20 Mortimer Street', 'London', 'E1 7BS', 'Fulham', 5002),

(DEFAULT, 'Fischer Verlag', 'Anhalter Strasse 94', 'Frankfurt', '20016', 'Frankfurt Province', 5005),

(DEFAULT, 'Francisco de Robles','Camp Benedicto 967', 'Madrid', '28491', 'Navacerrada', 5008),

(DEFAULT, 'Faber and Faber', '20 Great North Road', 'London', 'E1 7BT', 'Hammersmith', 5002),

(DEFAULT, 'Alfred A. Knopf', '149 Willis Street', 'New York', '10001', 'NY', 5001),

(DEFAULT, 'William Heinemann Ltd', '2 Park Square Milton Park', 'London', 'E1 7AY', 'Kensington', 5002),

(DEFAULT, 'Editorial Oveja Negra', ' Serrano 1501', 'Bogota', 'E1 7AB', 'Bogota Savanna', 5010),

(DEFAULT, 'Hogarth Press','3423 TULANE DR', 'London', 'E1 7BS', 'Islington', 5002),

(DEFAULT, 'Emece Editores', 'Juan Griego 4429', 'Buenos Aires', '20025', 'Eastern Argentina', 5008),

(DEFAULT, 'Kurt Wolff Verlag', 'Av Lartigau 3155', 'Leipzig', '20027', 'NA', 5005),

(DEFAULT, 'Jonathan Cape', '26-7 Boswell Street', 'London', 'E1 7BT', 'Wandsworth', 5002),

(DEFAULT, 'Bompiani', 'Via Capo le Case 103', 'Milan', '20033', 'Milan', 5006);

4. INSERT INTO

genres (genreID, genreName, genreDesc)

VALUES

(3001, 'Thriller', 'action packed and fast-paced with moments full of tension, anxiety, and fear');

INSERT INTO genres

(genreID, genreName, genreDesc)

VALUES

(DEFAULT, 'Romance', 'emotionally satisfying and optimistic ending'),

(DEFAULT, 'Memoir', 'narrative, written from the perspective of the author, about an important part of their life') ,

(DEFAULT, 'Non-fiction', 'literature that, regardless of the subject matter, has a simple goal: to provide information') ,

(DEFAULT, 'Fiction', 'literature from the imagination, not as fact, may be based on a true story or situation') ,

(DEFAULT, 'Drama', 'a category or genre of narrative fiction intended to be more serious than humorous in tone') ,

(DEFAULT, 'Horror', 'meant to scare, startle, shock, and even repulse audiences');

5. INSERT INTO languages

(languageID, languageName)

VALUES

(4001, 'English'),

(DEFAULT, 'German'),

(DEFAULT, 'French'),

(DEFAULT, 'Italian'),

(DEFAULT, 'Spanish'),

(DEFAULT, 'Japanese');

6. INSERT INTO nationality (countryID, country)

VALUES

(5001, 'United States of America'),

(DEFAULT, 'United Kingdom'),

(DEFAULT, 'India'),

(DEFAULT, 'Japan'),

(DEFAULT, 'Germany'),

(DEFAULT, 'Italy'),

(DEFAULT, 'France'),

(DEFAULT, 'Spain'),

(DEFAULT, 'Mexico'),

(DEFAULT, 'Columbia');

7. INSERT INTO users (userID, userfirstName, userlastName, userDOB, NationalityID)

VALUES

(8001, 'Michael', 'Davis', '1987-12-05',5001) ,

(DEFAULT, 'Ashley' ,'Johnson','1994-06-18',5001) ,

(DEFAULT, 'Christopher', 'Lee', '1991-08-22', 5001) ,

(DEFAULT, 'Katherine','White', '1982-11-11',5001) ,

(DEFAULT, 'William', 'Garcia', '1988-05-01', 5001) ,

(DEFAULT, 'Jennifer', 'Hernandez','1999-02-08',5001) ,

(DEFAULT, 'David','Wilson', '1983-09-20',5002) ,

(DEFAULT, 'Rachel' ,'Thomas','1990-06-12',5002) ,

(DEFAULT, 'Olivia','Clark', '1996-12-24',5002) ,

(DEFAULT, 'Sarah', 'Khan', '1989-03-29',5003) ,

(DEFAULT, 'Amit', 'Patel','1993-10-01',5003) ,

(DEFAULT, 'Neha', 'Singh','1997-06-07',5003) ,

(DEFAULT, 'Satoshi','Tanaka','1986-01-13',5004) ,

(DEFAULT, 'Aoi' ,'Yamamoto','1992-04-30',5004) ,

(DEFAULT, 'Kazuki', 'Nakamura', '1995-11-19',5004) ,

(DEFAULT, 'Marie' ,'Schmidt','1984-08-25',5005) ,

(DEFAULT, 'Julian', 'Bauer', '1990-03-16',5005) ,

(DEFAULT, 'Franziska','Hoffman','1997-01-12',5005) ,

(DEFAULT, 'Luca','Ferrari','1988-12-09',5006) ,

(DEFAULT, 'Martina','Esposito','1991-09-06',5006) ,

(DEFAULT, 'Andrea','Costa','1995-05-28',5006) ,

(DEFAULT, 'Pierre','Dubois','1981-06-15',5007) ,

(DEFAULT, 'Sophie', 'Martin','1987-09-02',5007) ,

(DEFAULT, 'Nicolas','Leroy','1994-02-11',5007) ,

(DEFAULT, 'Ana','Rodriguez','1982-03-07',5008) ,

(DEFAULT, 'Javier','Fernandez','1990-10-06',5008) ,

(DEFAULT, 'Maria','Hernandez','1996-05-23',5008) ,

(DEFAULT, 'Juan','Gonzalez','1979-08-28',5010) ,

(DEFAULT, 'Lucia','Morales','1984-11-03',5010) ,

(DEFAULT, 'Carlos','Torres','1991-04-18',5010);

8.INSERT INTO authors\_has\_books (bookID, authorID)

VALUES

(2001, 1001),

(2002, 1002),

(2003, 1003),

(2004, 1004),

(2005, 1005),

(2006, 1006),

(2007, 1007),

(2008, 1008),

(2009, 1009),

(2010, 1010),

(2011, 1011),

(2012,1012),

(2013, 1013),

(2014, 1014),

(2015, 1015),

(2016, 1016),

(2017, 1017),

(2018, 1018),

(2019, 1019),

(2020, 1020),

(2021, 1021),

(2022, 1022),

(2023, 1023),

(2024, 1024),

(2025, 1025),

(2026, 1026),

(2027, 1027),

(2028, 1024),

(2029, 1019),

(2030, 1011),

(2031, 1027);

9. INSERT INTO books\_has\_languages (bookID, languageID, bookpagesNo, publicationyear, isbn)

VALUES (2008,4005,417,1967,'978-0060883287'),

(2009,4001,306,1999,'978-0140282038'),

(2010,4005,4331,982,'978-1501117015'),

(2011,4001,1981,999,'978-0395927205'),

(2012,4006,1731,964,'978-0802150613'),

(2013,4001,300,1965,'978-0312427573'),

(2014,4001,433,2006,'978-0007200283'),

(2015,4001,48,1848,'978-1508474728'),

(2016,4002,152,1922,'978-0553208849'),

(2017,4005,863,1605,'978-0060934347'),

(2018,4001,288,2005,'978-1400078776'),

(2019,4006,256,1956,'978-0679752707'),

(2020,4006,505,2002,'978-1400079278'),

(2021,4001,209,1958,'978-0385474542'),

(2022,4005,348,1985,'978-0307389732'),

(2023,4001,194,1925,'978-0156628709'),

(2024,4005,174,1944,'978-0802130301'),

(2025,4002,56,1915,'978-0393923202'),

(2026,4001,647,1981,'978-0812976533'),

(2027,4001,245,1989,'978-0679731726'),

(2028,4001,321,1987,'978-1400033416'),

(2029,4001,181,1965,'978-0679750154'),

(2030,4001,291,2003,'978-0618485222'),

(2031,4001,311,1962,'978-0451163967');