//initialise docker
sdc-setup
eval "$(triton env --docker env)"

//set up a container called cass1
docker run --network zones -d --name cass1 cassandra:3.11.1

//get IP address from cass1
seed=$(docker inspect -f '{{ .NetworkSettings.IPAddress }}' cass1)
echo $seed

//check IP address of cass1
```
[sdc:s4492500] s4492500@moss:~$ seed=$(docker inspect -f '{{ .NetworkSettings.IPAddress }}' cass1)
[sdc:s4492500] s4492500@moss:~$ echo $seed
172.23.99.176
```

//set up an container named cass2 according to IP address of cass1
docker run -d --network zones --name=cass2 -e CASSANDRA_SEEDS=$seed cassandra:3.11.1

//check IP address of cass2
```
[sdc:s4492500] s4492500@moss:~$ seed=$(docker inspect -f '{{ .NetworkSettings.IPAddress }}' cass2)
[sdc:s4492500] s4492500@moss:~$ echo $seed
172.23.99.218
```

//set up an container named cass3 according to IP address of cass1
docker run -d --network zones --name=cass3 -e CASSANDRA_SEEDS=$seed cassandra:3.11.1

//check IP address of cass3
```
[sdc:s4492500] s4492500@moss:~$ seed=$(docker inspect -f '{{ .NetworkSettings.IPAddress }}' cass3)
[sdc:s4492500] s4492500@moss:~$ echo $seed
172.23.99.123
```

```
[sdc:s4492500] s4492500@moss:~$ docker ps
CONTAINER ID    IMAGE               COMMAND               CREATED      STATUS       PORTS                                              NAMES
92fc90c0d18f    oonlyo/zeppelin:0.8 "/entrypoint.sh"      4 days ago   Up 4 days                                                       s4492500
17aee4e79e56    cassandra:3.11.1    "docker-entrypoint..." 7 days ago  Up 7 days    7000-7001/tcp, 7199/tcp, 9042/tcp, 9160/tcp        cass3
f18dcf224bce    cassandra:3.11.1    "docker-entrypoint..." 7 days ago  Up 7 days    7000-7001/tcp, 7199/tcp, 9042/tcp, 9160/tcp        cass2
f9ec86130659    cassandra:3.11.1    "docker-entrypoint..." 7 days ago  Up 2 days    7000-7001/tcp, 7199/tcp, 9042/tcp, 9160/tcp        cass1
```
//create a new Cassandra container and connect to the cluster
docker run --network zones -it --rm cassandra:3.11.1 cqlsh $seed

//to check the Cassandra cluster information type
select peer, data_center from system.peers;
```
cqlsh> select peer, data_center from system.peers;

 peer          | data_center
---------------+-------------
 172.23.99.123 | datacenter1
 172.23.99.218 | datacenter1

(2 rows)
```

//create a keyspace named book

```
CREATE KEYSPACE book WITH REPLICATION = {'class' : 'NetworkTopologyStrategy',
'datacenter1' : 2};
```

```
USE book;
```

```
CREATE TABLE product ( bookid int, bookname text, genre text, author text, synopsis text,
publishdate date, price decimal, imageurl text, PRIMARY KEY ((bookid), bookname, genre,
author, synopsis, publishdate, price, imageurl));
```

```
insert into product(bookid, bookname, genre, synopsis, author, publishDate, price,
imageurl) values (48539, 'Steve Jobs', 'Biography', 'Steve Jobs is the authorized self-titled
biography book of Steve Jobs. The book was written at the request of Jobs by Walter
Isaacson, a former executive at CNN and TIME who has written best-selling biographies of
Benjamin Franklin and Albert Einstein. Based on more than forty interviews with Jobs
conducted over two years—in addition to interviews with more than one hundred family
members, friends, adversaries, competitors, and colleagues—Isaacson was given
"unprecedented" access to Job s life. Jobs is said to have encouraged the people
interviewed to speak honestly. Although Jobs cooperated with the book, he asked for no
control over its content other than the book s cover, and waived the right to read it before it
was published', 'Walter Issacsn', '2011-10-24', 18.95, 'image/Biography/1.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price,
imageurl) values (75510, 'Fear: Trump in the White House', 'Biography', 'Fear: Trump in the
White House is a non-fiction book by American journalist Bob Woodward about the
presidency of Donald Trump. The book was released on September 11, 2018. Woodward
based the book on hundreds of hours of interviews with members of the Trump
administration. The book s publisher, Simon & Schuster announced that it had sold 1.1
million copies (across all formats) in the first week of its release, making it the fastest selling
opener in the company s history.', 'Bob Woodward', '2018-09-11', 17.99,
'image/Biography/2.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price,
imageurl) values (91177, 'The Prison Letters of Nelson Mandela', 'Biography', 'Arrested in
1962 as South Africa s apartheid regime intensified its brutal campaign against political
opponents, forty-four-year-old lawyer and African National Congress activist Nelson
Mandela had no idea that he would spend the next twenty-seven years in jail. During his
10,052 days of incarceration, Mandela wrote hundreds of letters to unyielding prison
authorities, fellow activists, government officials, and most memorably, to his wife Winnie
and his five children.', 'Nelson Mandela', '2018-07-10', 39.43, 'image/Biography/3.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price,
imageurl) values (03671, 'Stephen Hawking', 'Biography', 'Stephen William Hawking (8
January 1942 – 14 March 2018) was an English theoretical physicist, cosmologist, and
author, who was director of research at the Centre for Theoretical Cosmology at the
```

University of Cambridge at the time of his death. Written with the clarity and simplicity for which all Kitty Ferguson s books have been praised, it is a captivating account of an extraordinary life and mind.', 'Kitty Ferguson', '2018-06-06', 22.89, 'image/Biography/4.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (77252, 'A. Lincoln: A Biography', 'Biography', 'In this important new biography, Ronald C. White, Jr. offers a fresh and fascinating definition of Lincoln as a man of integrity—what today's commentators are calling "authenticity"—whose internal moral compass is the key to understanding his life. Through meticulous research, utilizing recently discovered Lincoln letters, legal papers, and photographs, White depicts Lincoln as a person of intellectual curiosity, comfortable with ambiguity, and capable of changing his mind. The reader is treated to an exploration of Lincoln's compelling words, his changing ideas on slavery, the shaping of the modern role of Commander-in-Chief, and his surprising religious odyssey. A. Lincoln, so titled for the way Lincoln signed his name, sheds an innovative and profound light on our nation's most beloved leader for a new generation of Americans.', 'Ronald C. White Jr.', '2009-01-13', 24.95, 'image/Biography/5.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (37858, 'Inferno', 'Horror', 'Harvard professor Robert Langdon wakes up in a hospital in Florence, Italy with a head wound and no memory of the last few days. Dr. Sienna Brooks, one of the doctors tending to him, reveals that he is suffering from amnesia. When Vayentha, a female assassin, shows up in the hospital and kills Dr. Marconi, Brooks helps Langdon escape, and they flee to her apartment.', 'Dan Brown.', '2013-05-14', 10.99, 'image/Horror/2.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (03426, 'The Book Thief', 'Horror', 'After the death of Liesel s younger brother on a train to Molching, Liesel arrives at the home of her new foster parents, Hans and Rosa Hubermann, distraught and withdrawn. During her time there, she is exposed to the horrors of the Nazi regime, caught between the innocence of childhood and the maturity demanded by her destructive surroundings. As the political situation in Germany deteriorates, her foster parents conceal a Jewish fist fighter named Max Vandenburg. Hans, who has developed a close relationship with Liesel, teaches her to read, first in her bedroom, then in the basement. Recognizing the power of writing and sharing the written word, Liesel not only begins to steal books that the Nazi party is looking to destroy, but also writes her own story, and shares the power of language with Max.', 'Markus Zusak.', '2007-09-11', 11.69, 'image/Horror/3.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (48501, 'Under the Dome', 'Horror', 'Under the Dome is a science fiction novel by American writer Stephen King, published in November 2009. It is the 58th book published by Stephen King and it was his 48th novel. Set in and around a small Maine town, it tells an intricate, multi-character and point-of-view story of how the town s inhabitants contend with the calamity of being suddenly cut off from the outside world by an impassable, invisible barrier that drops out of the sky, transforming the community into a domed city.', 'Stephen King', '2013-06-11', 13.48, 'image/Horror/4.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (96685, 'Roadwork', 'Horror', 'The story takes place in an unnamed Midwestern city in 1973–1974. Grieving over the death of his son and the disintegration of his marriage, a man is driven to mental instability when he learns that both his home and his workplace will be demolished to make way for an extension to an interstate highway.', 'Stephen King', '2017-12-19', 11.55, 'image/Horror/5.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (02459, 'Harry Potter and the Philosopher s Stone', 'Science Fiction', 'Adaptation of the first of J.K. Rowling s popular children s novels about Harry Potter, a boy who learns on his eleventh birthday that he is the orphaned son of two powerful wizards and possesses unique magical powers of his own. He is summoned from his life as an unwanted child to become a student at Hogwarts, an English boarding school for wizards. There, he meets several friends who become his closest allies and help him discover the truth about his parents mysterious deaths.', 'J. K. Rowling', '1997-06-26', 13.25, 'image/Science_Fiction/4.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (30837, 'Harry Potter and the Half-Blood Prince', 'Science Fiction', 'As Death Eaters wreak havoc in both Muggle and Wizard worlds, Hogwarts is no longer a safe haven for students. Though Harry suspects there are new dangers lurking within the castle walls, Dumbledore is more intent than ever on preparing the young wizard for the final battle with Voldemort. Meanwhile, teenage hormones run rampant through Hogwarts, presenting a different sort of danger. Love may be in the air, but tragedy looms, and Hogwarts may never be the same again.', 'J. K. Rowling', '2005-07-16', 14.99, 'image/Science_Fiction/5.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (60356, 'The Lord of the Rings: The Fellowship of the Ring', 'Fantasy', 'The future of civilization rests in the fate of the One Ring, which has been lost for centuries. Powerful forces are unrelenting in their search for it. But fate has placed it in the hands of a young Hobbit named Frodo Baggins, who inherits the Ring and steps into legend. A daunting task lies ahead for Frodo when he becomes the Ringbearer - to destroy the One Ring in the fires of Mount Doom where it was forged.', 'J. R. R. Tolkien', '1954-07-29', 18.70, 'image/Fantasy/1.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (20506, 'The Lord of the Rings: The Two Towers', 'Fantasy', 'The sequel to the Golden Globe-nominated and AFI Award-winning "The Lord of the Rings: The Fellowship of the Ring," "The Two Towers" follows the continuing quest of Frodo and the Fellowship to destroy the One Ring. Frodo and Sam discover they are being followed by the mysterious Gollum. Aragorn, the Elf archer Legolas and Gimli the Dwarf encounter the besieged Rohan kingdom, whose once great King Theoden has fallen under Saruman s deadly spell.', 'J. R. R. Tolkien', '1954-11-11', 17.05, 'image/Fantasy/2.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (71046, 'The Chronicles of Narnia: The Lion, the Witch and the Wardrobe',

'Fantasy', 'During the World War II bombings of London, four English siblings are sent to a country house where they will be safe. One day Lucy finds a wardrobe that transports her to a magical world called Narnia. After coming back, she soon returns to Narnia with her brothers, Peter and Edmund, and her sister, Susan. There they join the magical lion, Aslan, in the fight against the evil White Witch, Jadis.', 'C. S. Lewis', '1950-10-16', 13.38, 'image/Fantasy/3.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (08926, 'A Game of Thrones', 'Fantasy', 'The principal story chronicles the power struggle for the Iron Throne among the great Houses of Westeros following the death of King Robert in A Game of Thrones. Robert s heir apparent, the 13-year-old Joffrey, is immediately proclaimed king through the machinations of his mother, Queen Cersei Lannister.', 'George R. R. Martin', '1996-08-01', 19.99, 'image/Fantasy/4.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (04079, 'The Name of the Wind','Fantasy', 'The story begins in the rural town of Newarre, introducing the innkeeper Kote and his assistant Bast, revealing that Kote is the renowned Kvothe: an unequaled sword fighter, magician, and musician, rumored to have killed a king and caused the present war. His assistant and student Bast is a prince of the Fae.', 'Patrick Rothfuss', '2007-03-27', 22.75, 'image/Fantasy/5.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (85598, 'Twilight', 'Romance', 'Bella Swan is a seventeen-year-old outcast, who moves from Phoenix, Arizona to Forks, Washington on the Olympic Peninsula to live with her father, Charlie. Her mother, Renée is traveling with her new husband, Phil Dwyer, a minor league baseball player. Bella is admitted to Forks High School, where she befriends many of the students. A somewhat inexperienced and shy girl, Bella is dismayed by several boys competing for her attention.', 'Stephenie Meyer', '2012-04-03', 9.49, 'image/Romance/1.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (30286, 'Fifty Shades of Grey', 'Romance', 'Fifty Shades of Grey is a 2011 erotic romance novel by British author E. L. James. It is the first instalment in the Fifty Shades trilogy that traces the deepening relationship between a college graduate, Anastasia Steele, and a young business magnate, Christian Grey. It is notable for its explicitly erotic scenes featuring elements of sexual practices involving bondage/discipline, dominance/submission, and sadism/masochism (BDSM). Originally self-published as an ebook and a print-on-demand, publishing rights were acquired by Vintage Books in March 2012.', 'E L James', '2011-04-03', 9.72, 'image/Romance/2.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (33669, 'The Girl on the Train', 'Romance', 'Rachel Watson is a 32-year-old alcoholic, reeling from the end of her marriage to Tom, who left her for another woman, Anna Watson. Rachels drinking has caused her to lose her job; she frequently binges and has blackouts. While drunk, she often harasses Tom, though she has little or no memory of these acts once she sobers up. Tom is now married to Anna and has a daughter with her, Evie – a situation that fuels Rachels self-destructive tendencies, as it was her inability to

conceive a child that began her spiral into alcoholism.', 'Paula Hawkins', '2016-07-12', 12.80,'image/Romance/3.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (37907, 'The Fault in Our Stars', 'Romance', 'The Fault in Our Stars, published in January 2012, is the sixth novel by author John Green. The title is inspired by Act 1, Scene 2 of Shakespeare s play Julius Caesar, in which the nobleman Cassius says to Brutus: The fault, dear Brutus, is not in our stars, / But in ourselves, that we are underlings. The story is narrated by Hazel Grace Lancaster, a 16-year-old girl with cancer. Hazel is forced by her parents to attend a support group where she subsequently meets and falls in love with 17-year-old Augustus Waters, an ex-basketball player and amputee.', 'John Green', '2012-01-10', 7.59,'image/Romance/4.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (77223, 'Outlander', 'Romance', 'Outlander (published in the United Kingdom as Cross Stitch) is the first in a series of eight historical multi-genre novels by Diana Gabaldon. Published in 1991, it focuses on the Second World War–era nurse Claire Randall, who travels through time to 18th century Scotland and finds adventure and romance with the dashing Jamie Fraser. A mix of several genres, the Outlander series has elements of historical fiction, romance, adventure and science fiction/fantasy. Outlander won the Romance Writers of America s RITA Award for Best Romance of 1991. A television adaptation of the Outlander series premiered on Starz in the US on August 9, 2014.', 'Diana Gabaldon', '1991-06-01', 9.99,'image/Romance/5.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (27723, 'Tarzan of the Apes', 'Adventure', 'Tarzan of the Apes is a novel by American writer Edgar Rice Burroughs, the first in a series of books about the title character Tarzan. It was first published in the pulp magazine The All-Story in October 1912. The story follows Tarzan s adventures, from his childhood being raised by apes in the jungle, to his eventual encounters with other humans and Western society. The character was so popular that Burroughs continued the series into the 1940s with two dozen sequels. For the novel s centennial anniversary, Library of America published a hardcover edition based on the original book with an introduction by Thomas Mallon in April of 2012 (ISBN 978-1-59853-164-0). Scholars have noted several important themes in the novel: the impact of heredity on behavior; racial superiority; civilization, especially as Tarzan struggles with his identity as a human; sexuality; and escapism.', 'Edgar Rice Burroughs', '2018-09-23', 9.72,'image/Adventure/1.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (57820, 'Devil s Gate', 'Adventure', 'Devil s Gate is an adventure novel in author Clive Cussler s The NUMA Files. Co-written with Graham Brown, this installment is the ninth of that series which features the main character Kurt Austin. The story follows employees of NUMA (National Underwater and Marine Agency) who discover someone is developing a directed-energy weapon and thwart the dictator of Sierre Leone, Djemma Garand, and the mercenary group led by Andras the Knife before they are able to use the weapon. The hardcover edition was released November 14, 2011, it was subsequently released as a paperback, audiobook and ebook. It appeared on several best-seller lists and

was describe by reviewers as being suitable for fans of Cussler and action-adventure stories.', 'Clive Cussler & Graham Brown', '2018-09-23', 7.08,'image/Adventure/2.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (70175, 'Gone Girl', 'Adventure', 'Gone Girl is a thriller novel by the writer Gillian Flynn. It was published by Crown Publishing Group in June 2012. The novel soon made the New York Times Best Seller list. The novel suspense comes from the main character, Nick Dunne, and whether he is involved in the disappearance of his wife.', 'Gillian Flynn', '2014-04-22', 9.69,'image/Adventure/3.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (95976, 'The Fiery Cross', 'Adventure', 'The Fiery Cross is the fifth book in the Outlander series of novels by Diana Gabaldon. Centered on time travelling 20th century doctor Claire Randall and her 18th century Scottish Highlander warrior husband Jamie Fraser, the books contain elements of historical fiction, romance, adventure and science fiction/fantasy.', 'Diana Gabaldon', '2001-11-06', 8.49,'image/Adventure/4.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (02319, 'Dragonfly in Amber', 'Adventure', 'Dragonfly in Amber is the second book in the Outlander series of novels by Diana Gabaldon. Centered on time travelling 20th century nurse Claire Randall and her 18th century Scottish Highlander warrior husband Jamie Fraser, the books contain elements of historical fiction, romance, adventure and science fiction/fantasy. This installment chronicles their efforts to prevent the Jacobite rising that Claire knows will end disastrously for the Scots.', 'Diana Gabaldon', '1992-07-01', 9.62,'image/Adventure/5.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (88752, 'The Hunger Games', 'Science Fiction', 'In what was once North America, the Capitol of Panem maintains its hold on its 12 districts by forcing them each to select a boy and a girl, called Tributes, to compete in a nationally televised event called the Hunger Games. Every citizen must watch as the youths fight to the death until only one remains. District 12 Tribute Katniss Everdeen has little to rely on, other than her hunting skills and sharp instincts, in an arena where she must weigh survival against love.', 'Suzzane Collins', '2008-09-14', 14.49,'image/Science_Fiction/1.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (45167, 'The Hunger Games: Catching Fire','Science Fiction', 'Against all odds, Katniss Everdeen has won the annual Hunger Games with fellow district tribute Peeta Mellark. But it was a victory won by defiance of the Capitol and their harsh rules. Katniss and Peeta should be happy. After all, they have just won for themselves and their families a life of safety and plenty. But there are rumors of rebellion among the subjects, and Katniss and Peeta, to their horror, are the faces of that rebellion. The Capitol is angry. The Capitol wants revenge.', 'Suzzane Collins', '2009-09-01', 14.49,'image/Science_Fiction/2.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (57985, 'The Hunger Games: Mockingjay', 'Science Fiction', 'Following her rescue from the devastating Quarter Quell, Katniss awakes in the complex beneath the

supposedly destroyed District 13. Her home, District 12, has been reduced to rubble, and Peeta Mellark is now the brainwashed captive of President Snow. At the same time, Katniss also learns about a secret rebellion spreading throughout all of Panem -- a rebellion that will place her at the center of a plot to turn the tables on Snow.', 'Suzzane Collins','2010-08-24', 14.49,'image/Science_Fiction/3.jpg');

insert into product(BookID, BookName, Genre, Synopsis, Author, PublishDate, Price, imageurl) values (90943, 'Chalk', 'Horror', 'Chalk tells the story of Andrew Waggoner, who suffers a horrifying act of violence at the hands of his school's bullies. In his grief and anger, the boy makes contact with an old and ancient presence, which offers to help make him whole and exact terrible revenge—if he allows it. The occult horror masks a genuine exploration of how trauma can affect a person, cutting them out of the world, instilling violent fantasies of revenge, and leaving psychological wounds that linger long after the ', 'Paul Cornell','2017-03-21', 16.19,'image/Horror/1.jpg');

// create a table named user
CREATE TABLE user(userid int, password text, firstname text, lastname text, gender text, age int, occupation text, zipcode int, PRIMARY KEY(userid));

//insert values into user
insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode, password) values (1, 'Eliza', 'Mccarthy', 'F', 12,'Student', 400678,'111111');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode, password) values (2, 'Robert', 'Porter', 'M', 28,'Clerk', 552800,'222222');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode, password) values (3, 'Aaron', 'Lee', 'M', 32,'Teacher', 348972,'333333');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode, password) values (4, 'Phoebe', 'Parsons', 'F', 22,'Artist', 445621,'444444');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode, password) values (5, 'Faye', 'Larson', 'F', 56,'Cashier', 234524,'555555');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode, password) values (6, 'Isabella', 'Sherman', 'F', 19,'Student', 334657,'666666');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode, password) values (7, 'James', 'Hammond', 'M', 34,'Doctor', 674633,'777777');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode,password) values (8, 'Neil', 'Baker', 'M', 8,'Student', 456453,'888888');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode,password) values (9, 'Joel', 'Rice', 'M', 11,'Student', 565651,'999999');

insert into User(UserID, FirstName, LastName, Gender, Age, Occupation, Zipcode,password)
values (10, 'Dawn', 'Miller', 'F', 20,'Chemist', 345346,'101010');
//create a table named orders
CREATE TABLE orders(orderid int, userid int, bookid int, orderdate date, rating double,
PRIMARY KEY(orderid));

// insert values into orders
insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1000, 1, 88752,
'2018-05-10', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1001, 4,75510, '2018-
10-02', 3);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1002, 5,02459, '2017-
07-12', 2);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1003, 6, 57820,
'2018-06-27', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1004, 10, 20506,
'2017-05-05', 3);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1005, 4,57985, '2018-
10-02', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1006, 8, 77223,
'2006-07-13', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1007, 4, 96685,
'2017-05-13', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1008, 3, 08926,
'2018-04-07', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1009, 7, 48539,
'2016-11-20', 2);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1010, 10,37858,
'2017-10-28', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1011, 1,60356, '2018-
05-27', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1012, 10, 71046,
'2018-07-19', 2);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1013, 5,04079, '2017-09-08', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1014, 2, 88752, '2017-02-21', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1015, 7,02459, '2018-11-10', 3);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1016, 5, 88752, '2016-03-01', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1017, 8,77252, '2018-05-16', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1018, 9,27723, '2017-06-18', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1019, 2, 88752, '2016-05-26', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1020, 1, 95976, '2018-07-27', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1021, 10,37858, '2017-03-26', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1022, 4,48501, '2017-07-14', 3);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1023, 5,88752 , '2016-02-28', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1024, 7, 85598, '2017-03-04', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1025, 8, 30286, '2018-09-30', 2);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1026, 5, 57985, '2017-03-19', 1);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1027, 7,75510, '2016-06-09', 4);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1028, 8,02459, '2017-04-13', 5);

insert into Orders(OrderID, UserID, Bookid, orderDate, Rating) values (1029, 1, 48501, '2018-07-22', 3);

//create a materialised view called search_by_sciencefiction to filter books in science fiction genre
CREATE MATERIALIZED VIEW search_by_sciencefiction AS SELECT bookname, imageurl, price FROM book.product WHERE genre = 'Science Fiction' AND bookid IS NOT NULL AND bookname IS NOT NULL AND price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND PUBLISHDATE IS NOT NULL AND AUTHOR IS NOT NULL PRIMARY KEY((bookid), bookname, genre, price, imageurl, synopsis, author, publish date);

//create a materialised view called search_by_fantasy to filter books in fantasy genre
CREATE MATERIALIZED VIEW search_by_fantasy AS SELECT bookname, imageurl, price FROM book.product WHERE genre = 'Fantasy' AND bookid IS NOT NULL AND bookname IS NOT NULL AND price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND PUBLISHDATE IS NOT NULL AND AUTHOR IS NOT NULL PRIMARY KEY((bookid), bookname, genre, price, imageurl, synopsis, author, publish date);

//create a materialised view called search_by_biography to filter books in biography genre
CREATE MATERIALIZED VIEW search_by_biography AS SELECT bookname, imageurl, price FROM book.product WHERE genre = 'Biography' AND bookid IS NOT NULL AND bookname IS NOT NULL AND price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND PUBLISHDATE IS NOT NULL AND AUTHOR IS NOT NULL PRIMARY KEY((bookid), bookname, genre, price, imageurl, synopsis, author, publish date);

//create a materialised view called search_by_horror to filter books in horror genre
CREATE MATERIALIZED VIEW search_by_horror AS SELECT bookname, imageurl, price FROM book.product WHERE genre = 'Horror' AND bookid IS NOT NULL AND bookname IS NOT NULL AND price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND PUBLISHDATE IS NOT NULL AND AUTHOR IS NOT NULL PRIMARY KEY((bookid), bookname, genre, price, imageurl, synopsis, author, publish date);

//create a materialised view called search_by_romance to filter books in romance genre
CREATE MATERIALIZED VIEW search_by_romance AS SELECT bookname, imageurl, price FROM book.product WHERE genre = 'Romance' AND bookid IS NOT NULL AND bookname IS NOT NULL AND price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND PUBLISHDATE IS NOT NULL AND AUTHOR IS NOT NULL PRIMARY KEY((bookid), bookname, genre, price, imageurl, synopsis, author, publish date);

//create a materialised view called search_by_adventure to filter books in adventure genre
CREATE MATERIALIZED VIEW search_by_adventure AS SELECT bookname, imageurl, price FROM book.product WHERE genre = 'Adventure' AND bookid IS NOT NULL AND bookname IS NOT NULL AND price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND PUBLISHDATE IS NOT NULL AND AUTHOR IS NOT NULL PRIMARY KEY((bookid), bookname, genre, price, imageurl, synopsis, author, publish date);

//create a materialised view called suzzane_collins to filter books written by Suzzane Collins
```
cqlsh:book> create materialized view suzzane_collins as select * from book.produ
ct where author = 'Suzzane Collins' AND bookid IS NOT NULL AND bookname IS NOT N
ULL AND price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND
PUBLISHDATE IS NOT NULL AND genre IS NOT NULL primary key((bookid), bookname, ge
nre, price, imageurl, synopsis, author, publishdate);
```

//create a materialised view called j_k_rowling to filter books written by J. K. Rowling
```
cqlsh:book> create materialized view j_k_rowling as select * from book.product w
here author = 'J. K. Rowling' AND bookid IS NOT NULL AND bookname IS NOT NULL AN
D price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND PUBLIS
HDATE IS NOT NULL AND genre IS NOT NULL primary key((bookid), bookname, genre, p
rice, imageurl, synopsis, author, publishdate);
```

//create a materialised view called stephen_king to filter books written by Stephen King
```
cqlsh:book> create materialized view stephen_king as select * from book.product
where author = 'Stephen King' AND bookid IS NOT NULL AND bookname IS NOT NULL AN
D price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND PUBLIS
HDATE IS NOT NULL AND genre IS NOT NULL primary key((bookid), bookname, genre, p
rice, imageurl, synopsis, author, publishdate);
```

//create a materialised view called j_r_r_tolkien to filter books written by J. R. R. Tolkien
```
cqlsh:book> create materialized view j_r_r_tolkien as select * from book.product
 where author = 'J. R. R. Tolkien' AND bookid IS NOT NULL AND bookname IS NOT NU
LL AND price IS NOT NULL AND imageurl IS NOT NULL AND synopsis IS NOT NULL AND P
UBLISHDATE IS NOT NULL AND genre IS NOT NULL primary key((bookid), bookname, gen
re, price, imageurl, synopsis, author, publishdate);
```