1. What are the books with the amazon rating, greater than 4.5 ?
    ➢ SELECT * FROM BOOK WHERE AmazonRating>4.5;

    The above command selects the amazon column, from the Book Table. Then, it looks for the rows with the amazon rating greater than 4.5.

2. What are the books which are fiction and non-fiction ?
    ➢ **<u>For NonFiction:</u>** SELECT * FROM BOOK WHERE Genre = 'NonFiction';
    ➢ **<u>For Fiction:</u>** SELECT * FROM BOOK WHERE Genre='Fiction';

    The above command selects the Genre column from the Book table. Then it looks for rows where the Genre is Nonfiction in the first command. The second command, follows the same procedure except that it would now search for rows where the Genre is Fiction.

3. Which book came between year 2010 and 2012 ?
    ➢ SELECT * FROM BOOK WHERE PublicationDate > "2010-01-01" AND Publicationdate < "2012-01-01";

    The above command selects the date and column from the Book Table. Next it looks in the date column and selects the rows whose publication date falls between 2010 and 2012.

4. What is the highest price of the book ?
    ➢ SELECT MAX (Price) from BOOK;

    The above command uses the Function Max. The max function find the bookid with the highest price.

5. Who are the authors with more than 1 book ?
    ➢ SELECT Authorid From BookAuthor
    ➢ GROUP BY AuthorId
    ➢ HAVING COUNT(AuthorId)>1;

6. What is the book of specific ISBN no ?
    SELECT * FROM BOOK
    ➢ Where ISBN = '1554551838';

    The above command selects the book table, then looks in the ISBN column. Afterwards it looks for the specified ISBN no, and return the row for it.

7. What is the name of the author, who wrote a particular book ?
    ➢ SELECT AuthorName From Author
    ➢ WHERE AuthorId = (SELECT BOOKID
            FROM BOOK
         WHERE BookName='Asylum');

The above command for query 7, first looks for bookid, which has the bookname as asylum. Then it matches the bookid with the author id. Then the author name is retrieved, which has the same id has the bookid.

8. Name of book which was bought by a particular customer ?
    ➢ SELECT BookName From BOOK WHERE
        BookId = (SELECT CustomerId
            FROM Customer WHERE
        CustomerName='Kiley');

The command first looks for the customerid, which has kileyas as its bookname. Then it matches the customerid with the book id.

9. What are no of warehouses in a particular location ?
    ➢ Select count(*) As TotalLocations
        FROM Warehouse
            WHERE location = 'NewYork';

The above code returns the number of warehouses in the specified locations. The location can be anything from paris to neywork to London here.

10. All the books which fall between certain prize range ?
    ➢ SELECT * FROM BOOK WHERE price > 10 AND price < 20;

This command finds all the books which cost between 10 and 20 dollars.

ON THE NEXT PAGE I HAVE INCLUDED A DUMP OF MY TABLES.

DUMP OF THE DATABASE TABLE

PRAGMA foreign_keys=ON;
BEGIN TRANSACTION;
CREATE TABLE BOOK(
BookId INTEGER PRIMARY KEY AUTOINCREMENT,
BookName VARCHAR(50) NOT NULL,
Price INT Float NULL,
ISBN VARCHAR(50),
Language VARCHAR(50),
PublicationDate NUMERIC(50),
AmazonRating INT,
Genre Char(10),
CONSTRAINT fk_dir FOREIGN KEY (BookId) REFERENCES BOOK (WarehouseId),
CONSTRAINT fk_dir FOREIGN KEY (BookId) REFERENCES Publisher (PublisherId),
CONSTRAINT fk_dir FOREIGN KEY (BookId) REFERENCES FedEx (FedExId)
);
INSERT INTO "BOOK" VALUES(1,'Harry Potter and the Cursed Child',30,1338099132,' English','2016-07-31',4,'Fiction');
INSERT INTO "BOOK" VALUES(2,'The Guide: A Novel',22,143039644,' English','2006-08-06',4.5,'Fiction');
INSERT INTO "BOOK" VALUES(3,'The High Mountains of Portugal: A Novel ',34.8,345809432,'English','2016-02-02',4,'Fiction');
INSERT INTO "BOOK" VALUES(4,'The Unconquered',28,'030746296X','ENGLISH','2011-11-18',3.5,'NonFiction');
INSERT INTO "BOOK" VALUES(5,'Adrift: Seventy-six Days Lost at Sea',22,618257322,'ENGLISH','2010-09-19',4.7,'NonFiction');
INSERT INTO "BOOK" VALUES(6,'Long Walk: The True Story Of A Trek To Freedom ',40,1592289444,'ENGLISH','2006-04-01',4.3,'NonFiction');
INSERT INTO "BOOK" VALUES(7,'HomeAlone',20,4534746036,' English','2011-08-06',3.3,'Fiction');
INSERT INTO "BOOK" VALUES(8,'Brief History of Time Stephen Hawking',3,0553380163,' English','1998-09-01',4.5,'Fiction');
INSERT INTO "BOOK" VALUES(9,'Asylum ',40,62220977,' English','2014-11-06',3.3,'Fiction');
INSERT INTO "BOOK" VALUES(10,'Gandhi: An Autobiography, The Story of My Experiments with Truth',12,1554551838,' English','2009-03-03',3.9,'Fiction');
INSERT INTO "BOOK" VALUES(11,'The 120 Days of Simon',4.95,'978-1-60309-050-6','ENGLISH','2012-03-03',4.3,'Fiction');
INSERT INTO "BOOK" VALUES(12,'The Snowden Files: The Inside Story of the World's Most Wanted Man',12.58,'978-0804173520','ENGLISH','2014-02-07',4.3,'NonFiction');
INSERT INTO "BOOK" VALUES(13,'The Pretender: My Life Undercover for the FBI',30,'978-1250068637','ENGLISH','2017-06-06',3.7,'Fiction');

```
INSERT INTO "BOOK" VALUES(14,'The World As I See It
',32.5,806527900,'ENGLISH','2009-08-09',4.2,'NonFiction');
INSERT INTO "BOOK" VALUES(16,'Outliers: The Story of
Success',23,1451639619,'ENGLISH','2011-06-07',4.5,'NonFiction');
INSERT INTO "BOOK" VALUES(20,'Tripe Cross: How bin Laden's Master Spy Penetrated the
CIA, the Green Berets,and the FBI',9,0061189418,'English','2009-06-16',4.4,'NonFiction');
CREATE TABLE Author(
AuthorId INTEGER PRIMARY KEY AUTOINCREMENT,
AuthorName VARCHAR(50) NOT NULL,
Website VARCHAR(50) NOT NULL,
PhoneNo VARCHAR(50) NOT NULL,
);
INSERT INTO "Author" VALUES(1,'ramesh','www.ramesbooks.com',’647-648-6980’);
INSERT INTO "Author" VALUES(2,'james','www.jamesstories.com',’447-645-6980’);
INSERT INTO "Author" VALUES(3,'mathew','www.mathewstories.com',’947-645-6980’);
INSERT INTO "Author" VALUES(4,'alex','www.alextories.com',’847-645-6980’);
INSERT INTO "Author" VALUES(5,'priya','www.priyafables.com',’623-345-8980’);
INSERT INTO "Author" VALUES(6,'omar','www.omarfables.com',’619-345-8950’);
INSERT INTO "Author" VALUES(7,'jonathan','www.jonathanfables.com',’619-845-8955’);
INSERT INTO "Author" VALUES(8,'lisa','www.lisashortstories.com',’646-845-2954’);
INSERT INTO "Author" VALUES(9,'lavanya','www.lovestories.com',’646-945-2937’);
INSERT INTO "Author" VALUES(10,'geet','www.geetstories.com',’846-943-2934);
CREATE TABLE CustomerBook(
CustomerId INT NOT NULL,
BookId INT NOT NULL,
CONSTRAINT PK_CustomerBook PRIMARY KEY (
CustomerId,
BookId
),
FOREIGN KEY ( CustomerId) REFERENCES Customer(CustomerId), FOREIGN KEY
(BookId) REFERENCES BOOK (BookId)
);
INSERT INTO "CustomerBook" VALUES(1,12);
INSERT INTO "CustomerBook" VALUES(2,13);
INSERT INTO "CustomerBook" VALUES(3,15);
INSERT INTO "CustomerBook" VALUES(4,19);
INSERT INTO "CustomerBook" VALUES(5,20);
INSERT INTO "CustomerBook" VALUES(6,11);
INSERT INTO "CustomerBook" VALUES(7,16);
INSERT INTO "CustomerBook" VALUES(8,17);
INSERT INTO "CustomerBook" VALUES(9,7);
INSERT INTO "CustomerBook" VALUES(10,2);
INSERT INTO "CustomerBook" VALUES(1,19);
```

```
INSERT INTO "CustomerBook" VALUES(3,17);
INSERT INTO "CustomerBook" VALUES(5,14);
INSERT INTO "CustomerBook" VALUES(7,10);
INSERT INTO "CustomerBook" VALUES(9,2);
INSERT INTO "CustomerBook" VALUES(10,5);
CREATE TABLE BookAuthor(
AuthorId INT NOT NULL,
BookId INT NOT NULL,
CONSTRAINT PK_BookAuhtor PRIMARY KEY (
AuthorId,
BookId
),
FOREIGN KEY ( AuthorId) REFERENCES Author(AuthorId), FOREIGN KEY (BookId)
REFERENCES BOOK (BookId)
);
INSERT INTO "BookAuthor" VALUES(3,9);
INSERT INTO "BookAuthor" VALUES(2,19);
INSERT INTO "BookAuthor" VALUES(1,10);
INSERT INTO "BookAuthor" VALUES(4,13);
INSERT INTO "BookAuthor" VALUES(5,17);
INSERT INTO "BookAuthor" VALUES(8,20);
INSERT INTO "BookAuthor" VALUES(6,13);
INSERT INTO "BookAuthor" VALUES(7,14);
INSERT INTO "BookAuthor" VALUES(9,7);
INSERT INTO "BookAuthor" VALUES(10,15);
INSERT INTO "BookAuthor" VALUES(3,12);
INSERT INTO "BookAuthor" VALUES(5,10);
INSERT INTO "BookAuthor" VALUES(7,9);
INSERT INTO "BookAuthor" VALUES(9,13);
CREATE TABLE "Customer" ("CustomerId" INTEGER PRIMARY KEY ,"CustomerName"
VARCHAR(50) NOT NULL ,"Address" VARCHAR(50) NOT NULL DEFAULT
(null) ,"PhoneNo" VARCHAR(50));
INSERT INTO "Customer" VALUES(1,'james','6649 N Blue Gum St,London','504-621-8927');
INSERT INTO "Customer" VALUES(2,'Art','8 W Cerritos Ave #54,Paris','907-385-4412');
INSERT INTO "Customer" VALUES(3,'Donette','3 Mcauley Dr,NewYork','419-503-2484');
INSERT INTO "Customer" VALUES(4,'Mitsue','7 Eads St,LosAngeles','773-573-6914');
INSERT INTO "Customer" VALUES(5,'Leota','7 W Jackson Blvd,NewJersey','408-752-3500');
INSERT INTO "Customer" VALUES(7,'Kris','228 Runamuck Pl #2808,Toronto','410-655-
8723');
INSERT INTO "Customer" VALUES(8,'Minna','2371 Jerrold Ave,London','215-874-1229');
INSERT INTO "Customer" VALUES(9,'Abel','37275 St Rt 17m M,Paris','631-677-3675');
```

```
INSERT INTO "Customer" VALUES(10,'Kiley','25 E 75th St #69,NewYork','431-677-3695');
CREATE TABLE "Warehouse" ("WarehouseId" INTEGER PRIMARY KEY ,"Location"
VARCHAR(50) DEFAULT (null) ,"PhoneNo" VARCHAR(50));

INSERT INTO "Warehouse" VALUES(1,'Los Angeles','310-498-5651');
INSERT INTO "Warehouse" VALUES(2,'NewYork','440-780-8425');
INSERT INTO "Warehouse" VALUES(3,'Toronto','956-537-6195');
INSERT INTO "Warehouse" VALUES(4,'Newjersey','456-537-6195');
INSERT INTO "Warehouse" VALUES(5,'London','366-537-6125');
INSERT INTO "Warehouse" VALUES(6,'Paris','856-537-6125');
INSERT INTO "Warehouse" VALUES(7,'London','602-277-4385');
INSERT INTO "Warehouse" VALUES(8,'NewYork','802-477-5385');
INSERT INTO "Warehouse" VALUES(9,'NewYork','202-477-5387');
INSERT INTO "Warehouse" VALUES(10,'LosAngeles','802-477-5383');

CREATE TABLE "FedEx" ("FedExId" INTEGER PRIMARY KEY ,"Location" VARCHAR(50)
DEFAULT (null) ,"PhoneNo" VARCHAR(50));
INSERT INTO "FedEx" VALUES(1,'Toronto','410-655-8723');
INSERT INTO "FedEx" VALUES(2,'Paris','810-455-923');
INSERT INTO "FedEx" VALUES(3,'NewYork','789-345-324');
INSERT INTO "FedEx" VALUES(4,'LosAngeles','215-874-1229');
INSERT INTO "FedEx" VALUES(5,'NewJersey','515-874-1229');
INSERT INTO "FedEx" VALUES(6,'London','615-474-1232');
INSERT INTO "FedEx" VALUES(7,'NewYork','515-474-1298');
INSERT INTO "FedEx" VALUES(8,'Toronto','815-344-1226');
INSERT INTO "FedEx" VALUES(9,'LosAngeles','310-498-5651');
INSERT INTO "FedEx" VALUES(10,'NewJersey','931-313-9635');

CREATE TABLE "Publisher" ("PublisherId" INTEGER PRIMARY KEY ,"Website"
VARCHAR(50));
INSERT INTO "Publisher" VALUES(1,'www.createbooks.com');
INSERT INTO "Publisher" VALUES(2,'www.harpercollins.com');
INSERT INTO "Publisher" VALUES(3,'www.tlac.com');
INSERT INTO "Publisher" VALUES(4,'www.mandagroup.com');
INSERT INTO "Publisher" VALUES(5,'www.dundrunpress.com');
INSERT INTO "Publisher" VALUES(6,'www.betweenthelines.com');
INSERT INTO "Publisher" VALUES(7,'www.wemakebooks.com');
INSERT INTO "Publisher" VALUES(8,'www.secondstorypress.com');
INSERT INTO "Publisher" VALUES(9,'www.coachhousebooks.com');
INSERT INTO "Publisher" VALUES(10,'www.nationalbooknetwork.com'); DELETE FROM
sqlite_sequence;

INSERT INTO "sqlite_sequence" VALUES('Author',10);
```

INSERT INTO "sqlite_sequence" VALUES('BOOK',18);
COMMIT;