

### Part 3

1.

```
SELECT ISBN FROM Titles WHERE Author = '<Author>';
```

```
SELECT ISBN FROM Titles WHERE Author = 'Herbert';
```

2.

```
SELECT Serial  
FROM Inventory  
WHERE ISBN = '<ISBN>'  
ORDER BY Serial DESC;
```

```
SELECT Serial  
FROM Inventory  
WHERE ISBN = '978-0679732242'  
ORDER BY Serial DESC;
```

3.

```
SELECT Inventory.Serial, Titles.ISBN  
FROM CheckedOut  
INNER JOIN Patrons ON CheckedOut.CardNum = Patrons.CardNum  
INNER JOIN Inventory ON CheckedOut.Serial = Inventory.Serial  
INNER JOIN Titles ON Inventory.ISBN = Titles.ISBN  
WHERE Patrons.Name = '<Patron's name>';
```

```
SELECT Inventory.Serial, Titles.ISBN  
FROM CheckedOut  
INNER JOIN Patrons ON CheckedOut.CardNum = Patrons.CardNum  
INNER JOIN Inventory ON CheckedOut.Serial = Inventory.Serial  
INNER JOIN Titles ON Inventory.ISBN = Titles.ISBN  
WHERE Patrons.Name = 'Dan';
```

4.

```
SELECT Patrons.Name, Phones.Phone  
FROM Patrons  
INNER JOIN Phones ON Phones.CardNum = Patrons.CardNum  
INNER JOIN CheckedOut ON CheckedOut.CardNum = Patrons.CardNum  
INNER JOIN Inventory ON CheckedOut.Serial = Inventory.Serial  
WHERE Inventory.ISBN = '<ISBN>';
```

```
SELECT Patrons.Name, Phones.Phone
FROM Patrons
INNER JOIN Phones ON Phones.CardNum = Patrons.CardNum
INNER JOIN CheckedOut ON CheckedOut.CardNum = Patrons.CardNum
INNER JOIN Inventory ON CheckedOut.Serial = Inventory.Serial
WHERE Inventory.ISBN = '978-0062278791';
```

#### **Part 4**

1.

```
SELECT Titles.Author
FROM Inventory
INNER JOIN Titles ON Inventory.ISBN = Titles.ISBN
ORDER BY Inventory.Serial ASC
LIMIT <N>;
```

2.

```
SELECT Patrons.Name, Phones.Phone
FROM CheckedOut
INNER JOIN Patrons ON CheckedOut.CardNum = Patrons.CardNum
INNER JOIN Phones ON Patrons.CardNum = Phones.CardNum
INNER JOIN Inventory ON CheckedOut.Serial = Inventory.Serial
ORDER BY Inventory.Serial DESC
LIMIT 1;
```

3.

```
SELECT DISTINCT Patrons.Name, Phones.Phone
FROM CheckedOut
INNER JOIN Patrons ON CheckedOut.CardNum = Patrons.CardNum
INNER JOIN Phones ON Patrons.CardNum = Phones.CardNum;
```

4.

```
SELECT DISTINCT Titles.Author, Titles.Title
FROM Titles
INNER JOIN Inventory ON Titles.ISBN = Inventory.ISBN
LEFT JOIN CheckedOut ON Inventory.Serial = CheckedOut.Serial
WHERE CheckedOut.Serial IS NULL;
```

## Part 5

1.

```
SELECT Players.Name, Players.pID
FROM Players
ORDER BY Players.Elo DESC
LIMIT 10;
```

2.

```
SELECT DISTINCT Players.Name, Players.Elo
FROM Players
INNER JOIN Games ON Players.pID = Games.BlackPlayer
WHERE Games.Result = 'B';
```

3.

```
SELECT DISTINCT Players.Name
FROM Players
INNER JOIN Games ON Players.pID = Games.WhitePlayer
WHERE Games.Result = 'W';
```

4.

```
SELECT DISTINCT Players.Name
FROM Players
INNER JOIN Games ON Players.pID = Games.WhitePlayer OR Players.pID =
Games.BlackPlayer
INNER JOIN Events ON Games.eID = Events.eID
WHERE Events.Site LIKE '%Budapest%' AND Events.Site LIKE '%HUN%' AND Events.Date
BETWEEN '2014-01-01' AND '2018-12-31';
```

5.

```
SELECT Events.Site, Events.Date
FROM Games
INNER JOIN Events ON Games.eID = Events.eID
WHERE (Games.WhitePlayer = (SELECT pID FROM Players WHERE Name = 'Kasparov,
Garry') AND Games.Result = 'W')
OR (Games.BlackPlayer = (SELECT pID FROM Players WHERE Name = 'Kasparov,
Garry') AND Games.Result = 'B');
```

6.

```
SELECT DISTINCT Players.Name
FROM Games
INNER JOIN Players ON Games.WhitePlayer = Players.pID OR Games.BlackPlayer =
Players.pID
WHERE Games.WhitePlayer = (SELECT pID FROM Players WHERE Name = 'Carlsen,
Magnus')
OR Games.BlackPlayer = (SELECT pID FROM Players WHERE Name = 'Carlsen,
Magnus');
```