DBT Problem Solving - Set - 006

Feb19/ DBT-PS/ 006

Database Technologies

Diploma in Advance Computing

February 2019

**Book Table:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ISBN** | **TITLE** | **LANGUAGE** | **MRP** | **PUBLISHERID** | **RELEASE\_DATE** |
| **1** | **MongoDB** | **English** | **1200** | **1** | 2019-04-09 |
| **2** | **Redis** | **French** | **1300** | **3** | 2019-04-25 |
| **3** | **Hive** | **English** | **1450** | **2** | 2019-05-07 |
| **4** | **Javascript** | **French** | **750** | **5** | 2019-05-10 |
| **5** | **NodeJS** | **English** | **1000** | **4** | 2019-05-28 |
| **6** | **C** | **French** | **800** | **1** | 2019-06-03 |
| **7** | **C++** | **English** | **950** | **3** | 2019-06-14 |
| **8** | **AutoCAD** | **Hindi** | **750** | **2** | 2019-06-17 |
| **9** | **Java** | **Marathi** | **500** | **5** | 2019-09-04 |
| **10** | **Pig** | **Hindi** | **600** | **4** | 2019-09-10 |
| **11** | **Word** | **English** | **1200** | **1** | 2019-09-16 |
| **12** | **Excel** | **Hindi** | **700** | **4** | 2019-09-18 |
| **13** | **PowerPoint** | **Marathi** | **400** | **5** | 2019-10-21 |
| **14** | **.NET** | **Hindi** | **900** | **4** | 2019-11-19 |
| **15** | **OSC** | **English** | **850** | **5** | 2019-11-28 |
| **16** | **MySQL** | **English** | **1450** | **2** | 2019-12-17 |
| **17** | **Oracle** | **English** | **750** | **3** | 2019-12-19 |
| **18** | **DB2** | **English** | **700** | **2** | 2019-12-23 |
| **19** | **Express** | **English** | **780** | **5** | 2019-12-26 |
| **20** | **AngularJS** | **English** | **1400** | **1** | 2019-12-27 |

**Author Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **AUTHORID** | **FIRSTNAME** | **LASTNAME** | **PHONE** | **EMAILID** |
| **1** | **Rudolf** | **Berghammer** | **9850884225** | Rudolf.Berghammer@gmail.com |
| **2** | **Richard** | **Bird** | **9850881225** | Richard.Bird@gmail.com |
| **3** | **Christopher** | **Bishop** | **9850662195** | Christopher.Bishop@gmail.com |
| **4** | **Dines** | **Bjorner** | **9850245110** | Dines.Bjorner@gmail.com |
| **5** | **Egon** | **Borger** | **9850345221** | Egon.Borger@gmail.com |
| **6** | **Stephen** | **Bourne** | **9850335761** | Stephen.Bourne@gmail.com |
| **7** | **Jonathan** | **Bowen** | **9922050697** | Jonathan.Bowen@gmail.com |
| **8** | **Bernd** | **Bruegge** | **9922065491** | Bernd.Bruegge@gmail.com |
| **9** | **Alan** | **Burns** | **9922459846** | Alan.Burns@gmail.com |
| **10** | **Stephen** | **King** | **9970398403** | Stephen.King@gmail.com |
| **11** | **Agatha** | **Christie** | **9970648148** | Agatha.Christie@gmail.com |
| **12** | **Barbara** | **Cartland** | **9970619753** | Barbara.Cartland@gmail.com |

**Book\_Author Table:**

|  |  |  |
| --- | --- | --- |
| **ID** | **ISBN** | **AUTHORID** |
| **1** | **1** | **1** |
| **2** | **1** | **5** |
| **3** | **2** | **7** |
| **4** | **3** | **4** |
| **5** | **3** | **1** |
| **6** | **4** | **6** |
| **7** | **5** | **4** |
| **8** | **6** | **7** |
| **9** | **7** | **1** |
| **10** | **8** | **2** |
| **11** | **8** | **3** |
| **12** | **9** | **4** |
| **13** | **10** | **1** |
| **14** | **10** | **5** |
| **15** | **10** | **7** |
| **16** | **11** | **5** |
| **17** | **11** | **3** |
| **18** | **12** | **8** |
| **19** | **12** | **9** |
| **20** | **13** | **1** |
| **21** | **14** | **4** |
| **22** | **14** | **8** |
| **23** | **15** | **4** |
| **24** | **15** | **3** |
| **25** | **16** | **7** |
| **26** | **17** | **7** |
| **27** | **18** | **8** |
| **28** | **18** | **9** |
| **29** | **19** | **1** |
| **30** | **19** | **4** |
| **31** | **20** | **10** |

**Publisher Table:**

|  |  |  |
| --- | --- | --- |
| **PUBLISHERID** | **PUBLISHERNAME** | **EMAILID** |
| **1** | **Jaico Publishing House** | **Jaico.Publishet@yahoo.com** |
| **2** | **Westland Publications** | **Westland.Publications@gmail.com** |
| **3** | **Roli Books** | **Roli.Books@yahoo.com** |
| **4** | **Rupa Publications** | **Rupa.Publications@yahoo.com** |
| **5** | **Aleph Book Company** | **Aleph.Book@yahoo.com** |
| **6** | **Fingerprint Publishing** | **Fingerprint.Publishing@yahoo.com** |

**Given the above tables solve the following queries.**

1. **Write a query to display all books whose language is 'English'.**

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1. **Write a query to display book title, mrp, and publisher name.**

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1. **Write a query to print publisher name and count the number book published by every publisher, arrange the data in ascending order of publisher name.**

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1. **Write a query to print publisher name who have published maximum number of book.**

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1. **Write a query to display all book details which were released in the month on 'May'.**

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1. **Write a query to display book title, language, mrp, with author’s first name, last name with phone number and author's emailID for all books.**

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1. **Write a query to display author’s first name and count the number of books written by every author, display the output in ascending order of the count.**

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1. **Write a query which displays book title, language, mrp and release date which are published by the publisher 'Rupa Publications'.**

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1. **Write a query to display the author firstname, lastname and his phone number in the following format 9850\*\*\*\*\*\*.**

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1. **Write a query to display the title, release date, and mrp for all books whose book cost in more than 1200 and language is 'English'.**

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1. **Write a query to display publishers name allong with authors firstname, lastname, phone, and his emailid who have written the book on 'AutoCAD'.**

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1. **Write a query to print book title, language, mrp and release date written by 'Jonathan'.**

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1. **Write a query to print language wise total count of books.**

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1. **Write a query to display publisher wise count of books.**

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1. **Write a query to display book details whose cost of book is more than 'MongoDB' book cost.**

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ANSWERS

1. **select \* from book where language = 'English';**
2. **select title, mrp, publishername from book, publisher where book.publisherid = publisher.publisherid;**
3. **select publishername, count(\*) from book, publisher where book.publisherid = publisher.publisherid group by publishername order by publishername;**
4. **select publishername from book, publisher where book.publisherid = publisher.publisherid group by publishername having count(\*) = (select max(r1) from (select count(\*) r1 from book, publisher where book.publisherid = publisher.publisherid group by publishername) temp);**
5. **select \* from book where monthname(release\_date) = 'May';**
6. **select title, language, mrp, firstname, lastname, phone, emailid from book, book\_author, author where book.isbn = book\_author.isbn and book\_author.authorid = author.authorid order by title;**
7. **select firstname, count(\*) R1 from author, book, book\_author where author.authorid = book\_author.authorid and book\_author.isbn = book.isbn group by firstname order by R1;**
8. **select Title, language, mrp, release\_date from book, publisher where book.publisherid = publisher.publisherid and publishername = 'Rupa Publications';**
9. **select firstname, lastname, concat(left(phone,4), rpad('',6,'\*')) from author;**
10. **select title, release\_date, mrp from book where mrp > 1200 and language ='English'**
11. **select publishername, firstname, lastname, phone, author.emailid from book, author, book\_author, publisher where book.isbn = book\_author.isbn and book\_author.authorid = author.authorid and book.publisherid = publisher.publisherid and title='AutoCAD'**
12. **select title, language, mrp, release\_date from book, author, book\_author where book.isbn = book\_author.isbn and book\_author.authorid = author.authorid and author.firstname = 'Jonathan';**
13. **select language, count(\*) from book group by language;**
14. **select publishername, count(\*) from book, publisher where book.publisherid = publisher.publisherid group by publishername;**
15. **select \* from book where mrp > (select mrp from book where title='MongoDB');**