DBT Problem Solving - Set - 015

Feb19/ DBT-PS/ 015

Database Technologies

Diploma in Advance Computing

February 2019

**Authors Table: (for Library)**

|  |  |  |
| --- | --- | --- |
| **authorId** | **name** | **surname** |
| 1 | William Dean | Howells |
| 2 | Frederic | Brown |
| 3 | Jack | London |
| 4 | Albert | Blaisdell |
| 5 | Ellis | Butler |
| 6 | Arthur | Machen |
| 7 | Titus | Lucretius |
| 8 | Rabindranath | Tagore |
| 9 | Isaac | Asimov |
| 10 | Charles | Dickens |
| 11 | Ralph Waldo | Emerson |
| 12 | Dorothy | Canfield |
| 13 | Givoanni | Boccaccio |
| 14 | George | Orwell |
| 15 | Publius | Ovid |
| 16 | Robert Louis | Stevenson |
| 17 | Virginia | Woolf |
| 18 | George | Eliot |
| 19 | Amelia B. | Edwards |
| 20 | Fyodor | Dostoevsky |
| 21 | Emily | Dickinson |
| 22 | Edna | Ferber |
| 23 | Joseph Sheridan | LeFanu |
| 24 | John | DosPassos |
| 25 | Ruth | Stuart |
| 26 | Vladimir | Nabokov |
| 27 | Johanna | Spyri |
| 28 | Ernest | Dowson |
| 29 | Mary Hallock | Foote |
| 30 | Zane | Grey |
| 31 | H. P. | Lovecraft |
| 32 | Samuel | Pepys |
| 33 | Kate Dickinson | Sweetser |
| 34 | William | Lampton |
| 35 | Mother | Goose |
| 36 | Eleanor Hallowell | Abbott |

**Books Table:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **bookId** | **name** | **pagecount** | **point** | **authorId** | **typeId** |
| 1 | A Daughter of the Snows | 199 | 84 | 3 | 9 |
| 2 | The Near East: 10,000 Years of History | 298 | 52 | 9 | 13 |
| 3 | The Cocoon: A Rest-Cure Comedy | 90 | 26 | 25 | 12 |
| 4 | The Freakshow Murders | 321 | 41 | 2 | 3 |
| 5 | Pharaohs Fellahs and Explorers | 367 | 56 | 19 | 9 |
| 6 | Hard Times | 293 | 25 | 10 | 1 |
| 7 | A Modern Instance | 222 | 73 | 1 | 12 |
| 8 | The Real Mother Goose | 88 | 99 | 35 | 1 |
| 9 | A Thousand Miles Up the Nile | 110 | 90 | 19 | 18 |
| 10 | Children of Blood and Bone | 137 | 83 | 7 | 13 |
| 11 | A pushcart at the curb | 95 | 55 | 24 | 1 |
| 12 | The Desert and the Sown | 126 | 35 | 29 | 10 |
| 13 | Three Soldiers | 223 | 92 | 24 | 16 |
| 14 | The End of Eternity | 168 | 42 | 9 | 1 |
| 15 | Annie Kilburn | 291 | 51 | 1 | 12 |
| 16 | A Touch of Sun and Other Stories | 141 | 69 | 29 | 9 |
| 17 | Show Boat | 151 | 26 | 22 | 18 |
| 18 | The Call of the Wild | 362 | 49 | 3 | 18 |
| 19 | My Mark Twain | 339 | 64 | 1 | 9 |
| 20 | Broken Ties | 134 | 56 | 8 | 5 |
| 21 | Short Stories From American History | 305 | 89 | 4 | 8 |
| 22 | Mrs Rosie and the Priest | 104 | 30 | 13 | 14 |
| 23 | So Big | 209 | 57 | 22 | 3 |
| 24 | Monsieur Maurice | 92 | 61 | 19 | 8 |
| 25 | The Master of Ballantrae | 236 | 66 | 16 | 13 |
| 26 | The Unlived Life of Little Mary Ellen | 99 | 45 | 25 | 6 |
| 27 | Mouse - The Last Train | 184 | 43 | 2 | 14 |
| 28 | Edith Bonham | 122 | 74 | 29 | 7 |
| 29 | Maybe Mother Goose | 161 | 98 | 35 | 14 |
| 30 | The Noble Gases | 321 | 33 | 9 | 5 |
| 31 | Rainy Week | 98 | 32 | 36 | 7 |
| 32 | A Hazard of New Fortunes | 144 | 92 | 1 | 4 |
| 33 | A Plot for Murder | 108 | 45 | 2 | 13 |
| 34 | Nature | 357 | 59 | 11 | 8 |
| 35 | Hickory Dickory Dock | 326 | 91 | 35 | 6 |
| 36 | Big Fat Hen | 232 | 28 | 35 | 12 |

**Students Table:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **studentId** | **name** | **surname** | **birthdate** | **gender** | **class** | **point** |
| 1 | Hazel | Green | 1999-05-15 | F | 9B | 916 |
| 2 | Ashley | Marshall | 1999-10-28 | F | 12D | 215 |
| 3 | Ansley | Green | 2000-07-12 | F | 12B | 772 |
| 4 | Alcock | hapman | 1999-01-25 | F | 10C | 180 |
| 5 | Meadow | Taylor | 1999-12-30 | F | 11B | 215 |
| 6 | Green | Wright | 1999-03-09 | M | 10A | 552 |
| 7 | Paxton | Foster | 1999-03-03 | M | 12B | 775 |
| 8 | Gray | King | 1999-06-26 | M | 12D | 422 |
| 9 | Jones | Collins | 1999-01-26 | M | 11A | 816 |
| 10 | Leslie | Young | 1999-02-10 | F | 11C | 835 |
| 11 | Hailey | Hill | 2001-01-16 | F | 10C | 342 |
| 12 | ashington | Martin | 2001-05-23 | M | 9C | 187 |
| 13 | Ramirez | Green | 1999-08-28 | M | 11A | 564 |
| 14 | Morgan | Smith | 2001-05-15 | M | 10C | 666 |
| 15 | Perez | Baker | 1999-10-27 | M | 9C | 936 |
| 16 | Alfie | Watson | 2001-04-05 | M | 10C | 552 |
| 17 | Madison | Jackson | 2001-02-15 | F | 9E | 125 |
| 18 | Beverly | Moore | 1999-11-19 | F | 9E | 269 |
| 19 | Kaden | nderson | 2000-11-11 | M | 9D | 976 |
| 20 | Carter | Adams | 2000-07-08 | M | 11C | 658 |
| 21 | Ackland | Adams | 2000-05-19 | F | 11C | 889 |
| 22 | Hadley | Parker | 1999-11-21 | F | 11C | 104 |
| 23 | Henderson | Cook | 2001-08-06 | M | 9C | 798 |
| 24 | Wright | Young | 2000-05-14 | M | 12E | 209 |
| 25 | Lindsey | ilkinson | 2000-10-08 | F | 10E | 225 |
| 26 | Wren | hapman | 2000-11-06 | F | 12A | 58 |
| 27 | Love | hapman | 2000-10-15 | F | 12B | 637 |
| 28 | Wes | Bell | 2001-01-25 | M | 9A | 713 |
| 29 | Tyler | Carter | 2001-08-24 | M | 11C | 709 |
| 30 | Edwin | Cook | 2000-08-17 | M | 10C | 882 |
| 31 | Sally | Wood | 1999-06-07 | F | 12D | 59 |
| 32 | Nelson | Smith | 1999-11-15 | M | 12D | 129 |
| 33 | Arabelle | Brown | 2000-03-11 | F | 11C | 7 |
| 34 | Carter | Harrison | 2000-11-30 | M | 10D | 585 |
| 35 | Baker | Bell | 2000-03-24 | M | 11E | 95 |
| 36 | Cherish | Cooper | 1999-01-31 | F | 10C | 855 |

**Borrows Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **borrowId** | **studentId** | **bookId** | **takenDate** | **broughtDate** |
| 1 | 360 | 142 | 2015-08-09 13:26:00 | 2015-08-20 06:59:00 |
| 2 | 308 | 131 | 2015-08-10 19:44:00 | 2015-08-15 10:46:00 |
| 3 | 288 | 160 | 2015-08-10 22:05:00 | 2015-08-19 17:28:00 |
| 4 | 57 | 24 | 2015-08-11 02:32:00 | 2015-08-17 15:12:00 |
| 5 | 504 | 110 | 2015-08-12 12:05:00 | 2015-08-21 07:16:00 |
| 6 | 38 | 101 | 2015-08-12 12:25:00 | 2015-08-18 04:33:00 |
| 7 | 425 | 122 | 2015-08-13 13:51:00 | 2015-08-20 09:27:00 |
| 8 | 363 | 64 | 2015-08-13 15:58:00 | 2015-08-19 23:10:00 |
| 9 | 348 | 24 | 2015-08-18 09:27:00 | 2015-08-28 12:48:00 |
| 10 | 88 | 36 | 2015-08-19 22:11:00 | 2015-09-08 06:28:00 |
| 11 | 19 | 111 | 2015-08-21 16:39:00 | 2015-08-29 00:28:00 |
| 12 | 200 | 152 | 2015-08-21 22:13:00 | 2015-09-02 00:17:00 |
| 13 | 421 | 100 | 2015-08-23 16:58:00 | 2015-08-28 11:27:00 |
| 14 | 216 | 26 | 2015-08-24 20:06:00 | 2015-09-02 21:56:00 |
| 15 | 298 | 53 | 2015-08-24 21:59:00 | 2015-09-05 16:29:00 |
| 16 | 264 | 109 | 2015-08-25 00:22:00 | 2015-08-28 19:06:00 |
| 17 | 499 | 62 | 2015-08-25 12:12:00 | 2015-09-05 10:26:00 |
| 18 | 211 | 120 | 2015-08-28 19:57:00 | 2015-09-05 10:39:00 |
| 19 | 332 | 91 | 2015-08-30 00:37:00 | 2015-09-18 08:46:00 |
| 20 | 66 | 150 | 2015-08-30 18:51:00 | 2015-09-04 03:32:00 |
| 21 | 37 | 24 | 2015-08-31 04:30:00 | 2015-09-17 00:15:00 |
| 22 | 210 | 53 | 2015-08-31 14:11:00 | 2015-09-17 23:38:00 |
| 23 | 253 | 139 | 2015-09-01 16:59:00 | 2015-09-12 06:07:00 |
| 24 | 303 | 6 | 2015-09-01 19:43:00 | 2015-09-04 01:57:00 |
| 25 | 465 | 16 | 2015-09-01 23:23:00 | 2015-09-19 19:52:00 |
| 26 | 349 | 75 | 2015-09-03 13:37:00 | 2015-09-20 07:56:00 |
| 27 | 39 | 106 | 2015-09-05 07:19:00 | 2015-09-20 03:55:00 |
| 28 | 482 | 122 | 2015-09-05 14:32:00 | 2015-09-16 04:40:00 |
| 29 | 143 | 20 | 2015-09-05 19:41:00 | 2015-09-10 17:03:00 |
| 30 | 88 | 148 | 2015-09-05 21:37:00 | 2015-09-22 16:38:00 |
| 31 | 173 | 3 | 2015-09-06 05:03:00 | 2015-09-18 11:32:00 |
| 32 | 190 | 141 | 2015-09-06 16:51:00 | 2015-09-17 22:16:00 |
| 33 | 368 | 93 | 2015-09-07 16:16:00 | 2015-09-17 14:53:00 |
| 34 | 416 | 97 | 2015-09-08 02:42:00 | 2015-09-24 19:18:00 |
| 35 | 374 | 90 | 2015-09-08 23:12:00 | 2015-09-25 17:52:00 |
| 36 | 389 | 146 | 2015-09-10 11:58:00 | 2015-09-27 21:18:00 |

**Types Table:**

|  |  |
| --- | --- |
| **typeId** | **name** |
| 1 | Science fiction |
| 2 | Satire |
| 3 | Drama |
| 4 | Action and Adventure |
| 5 | Romance |
| 6 | Mystery |
| 7 | Horror |
| 8 | Health |
| 9 | Guide |
| 10 | Diaries |
| 11 | Comics |
| 12 | Diaries |
| 13 | Journals |
| 14 | Biographies |
| 15 | Fantasy |
| 16 | History |
| 17 | Science |
| 18 | Art |
| 19 | Poetry |
| 20 | Short story |
| 21 | Suspense |
| 22 | Thriller |
| 23 | Comic book |
| 24 | Cookbook |
| 25 | Travel |
| 26 | Fairytale |
| 27 | Picture book |
| 28 | Encyclopedia |

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

1. **Write a query to display the students with student numbers 1, 7, 11 and 17 in the student table.**

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1. **Write a query to display students whose stident ID is odd.**

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1. **Write a query to display students whose StudentID is odd and name contains "a" character.**

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1. **Write a query to display male students according to their names is ascending order.**

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1. **Write a query to display all students in randomly ordered.**

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1. **Write a query to display all male students in randomly ordered.**

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1. **Write a query to display the book with the most page number.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display all students name, surname from students table and takenDate from borrows table.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display all students name, surname, the name of the taken book and the taken date.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display all students name, surname, the name of the taken book, the taken date and the book's type.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display all students name, surname, the name of the taken book, the taken date, the book's type and the name and surname of the author.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display all students name, surname, the name of the taken book , the name of the book type and the taken time from 11B class.**

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1. **Write a query to display all female students name, surname, the name of the taken book and the taken time from 11B class.**

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1. **Write a qeury to display the count of students.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to display the total page count for all books.**

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**ANS.**

1. **select \* from student where studentId in (1, 7, 11, 17);**
2. **select \* from students where studentId % 2 = 1;**
3. **select \* from student where name like 'a%' and studentId % 2 = 1;**
4. **select \* from students where gender = 'M' order by name;**
5. **select \* from students order by rand();**
6. **select \* from students where gender = 'M' order by rand();**
7. **select \* from books where pagecount=(select max(pagecount) from books);**
8. **select name, surname, takenDate from students, borrows where students.studentId = borrows.studentId;**
9. **select students. name, students.surname, books.name, takenDate from students, borrows, books where students.studentId = borrows.studentId and books.bookId = borrows.bookId;**
10. **select students.name, students.surname, books.name, takenDate, types.name from students, borrows, books, types where students.studentId = borrows.studentId and books.bookId = borrows.bookId and books.typeId = types.typeId;**
11. **select students.name, students.surname, books.name, takenDate, types.name, authors.name, authors.surname from students, borrows, books, types, authors where students.studentId = borrows.studentId and books.bookId = borrows.bookId and books.typeId = types.typeId and authors.authorId = books.authorId;**
12. **select students.name, students.surname, books.name, takenDate, types.name from students, borrows, books, types, authors where students.studentId = borrows.studentId and books.bookId = borrows.bookId and books.typeId = types.typeId and class='11B';**
13. **select students.name, students.surname, books.name, takenDate from students, borrows, books, types, authors where students.studentId = borrows.studentId and books.bookId = borrows.bookId and books.typeId = types.typeId and class='11B' and gender='F';**
14. **select count(\*) from students;**
15. **select sum(pagecount) from books;**