Since 2020, Scotland Golfers has maintained a database of every golf club member in Scotland. The database stores details of each player along with the club they are a member of and their handicap.

The database also stores the results of club competitions that take place all over Scotland including a unique code for each individual result and the type of match (Match Play, Stroke Play or Stableford).

Each table contains thousands of rows. A selection of rows from the two database tables are shown below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table: Golfer** | | | | | | |
| **scotGolfNo** | **forename** | **surname** | **age** | **club** | **handicap** |
| 9274632 | Craig | White | Junior | Dundee Golf Club | 12 |
| 8364766 | Donna | Winter | Adult | St Andrews Golf Club | 4 |
| 9364521 | Kai | Smart | Adult | Perth Golf Club |  |
| 1284361 | Kyra | Assam | Junior | Arbroath Golf Club | 5 |
| 7634520 | Jamie | Grey | Senior | Dundee Golf Club | 22 |
| … | … | … | … | … | … |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table: Result** | | | | | | | | |
| **resultID** | **competition** | **level** | **type** | **year** | **score** | **scotGolfNo** | **matchType** |
| DUF0022 | Dunfermline Carnegie Cup | Junior | Ladies | 2021 | 91 | 1100752 | stroke play |
| DUN0022 | Dundee Masters | Adult | Mixed | 2021 | 88 | 1154763 | stableford |
| DUN0129 | Dundee Open | Adult | Gents | 2022 | 80 | 1162891 | stroke play |
| HAW0011 | Hawick Seniors | Senior | Ladies | 2021 | 78 | 1465550 | stroke play |
| STA0013 | St Andrews Cup | Adult | Gents | 2021 | 81 | 1162891 | stroke play |
| OBN0007 | Oban Match Play | Adult | Gents | 2021 | 75 | 1307246 | match play |
| … | … |  |  |  | … | … | … |

**Each of the following questions shows output from an SQL statement using the above tables.**

**Write the SQL required to create the sorted output shown.**

**Question 1 –** The output below displays every golfer in the Scotland Golfers database. **(2)**

SELECT \_\_\_\_Golfer.scotGolfNo, forename, surname\_\_\_\_\_\_\_\_\_\_

FROM \_\_\_\_golfer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ORDER BY \_\_\_scotGolfNo;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| scotGolfNo | forename | surname |
| 1077384 | Greg | Anderson |
| 1100752 | Sosanna | Cattanach-Chell |
| 1154763 | Huang | Lei |
| 1156449 | Terry | Souza |
| 1162891 | William | McCall |
| 1168969 | Jose | Carreras |
| … | … | … |

**Question 2 –** The output below was produced for all the golfers with the surname White. **(3)**

SELECT \_\_\_\_\_club, handicap\_\_\_\_\_\_\_\_\_\_\_

FROM \_\_\_golfer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

WHERE \_\_\_\_\_\_\_surname = “white”\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ORDER BY \_\_\_\_\_\_\_club\_\_ASC;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| club | handicap |
| Dumfries Golf Club | 20 |
| Dundee Golf Club | 12 |
| Gullane Golf Club | 12 |
| Nairn Golf Club | 18 |
| … | … |

**Question 3 –** The output below was produced for all Ladies who have played in the annual Dunfermline Open tournament. **(4)**

SELECT resultID, year, score

FROM Result

WHERE type = “Ladies”;

|  |  |  |
| --- | --- | --- |
| resultID | year | score |
| DUF0132 | 2021 | 92 |
| DUF0122 | 2021 | 73 |
| DUF0123 | 2021 | 90 |
| DUF0125 | 2021 | 73 |
| DUF0127 | 2021 | 96 |
| DUF0128 | 2021 | 111 |
| DUF0129 | 2021 | 103 |
| … | … | … |

**Question 4 –** The output below was created to find the scores of any Perth Golf Club member, with a handicap of more than 10, who took part in stroke play competitions. **(6)**

SELECT forename, surname, age, score

FROM Golfer JOIN Result ON Golfer.scotGolfNo = Result.scotGolfNo

WHERE handicap > 10 AND matchType = “stroke play” AND club = “Perth Golf Club”

ORDER BY score DESC;

|  |  |  |  |
| --- | --- | --- | --- |
| forename | surname | age | score |
| forename | surname | age | score |
| Camila | Reisinger | Senior | 104 |
| Julianna | Hyper | Senior | 101 |
| Frannie | Beckett | Junior | 101 |
| Camila | Reisinger | Senior | 98 |
| Camila | Reisinger | Senior | 97 |
| Craig | Selkirk | Junior | 96 |
| … | … | … | … |

**Question 5 –** The output below displays the handicap of all junior golfers who have played in the Dundee Masters. **(5)**

SELECT forename, surname, handicap

FROM Golfer JOIN Result ON Golfer.scotGolfNo = Result.scotGolfNo

WHERE age = “Junior” AND competition = “Dundee Masters”

ORDER BY handicap DESC;

|  |  |  |
| --- | --- | --- |
| forename | surname | handicap |
| Johnna | Coots | 21 |
| Ronni | Vandeusen | 20 |
| Eduardo | Herrmann | 19 |
| Rory | O'Sullivan | 18 |
| Caterina | Grunewald | 15 |
| Huang | Lei | 15 |
| Sabra | Moris | 14 |
| … | … | … |

**Question 6 –** The output below shows results from the 2022 Senior, Dunfermline Open competition. **(6)**

SELECT forename, surname, score

FROM Golfer JOIN Result ON Golfer.scotGolfNo = Result.scotGolfNo

WHERE competition = “Dunfermline Open” AND year = 2022 ANDlevel = “Senior”

ORDER BY surname DESC;

|  |  |  |
| --- | --- | --- |
| forename | surname | score |
| Yan | Xuefeng | 78 |
| Sylvia | White | 98 |
| Karen | White | 88 |
| Lluc | Weigand | 100 |
| Suncica | Wegberg | 100 |
| Tahir | Valette | 89 |
| Audrey | Specht | 102 |
| … | … | … |

**The next two questions have output that requires more the one column to be sorted into order.**

**Question 7 –** The output below displays the junior golfers at Lamlash Golf Club. The output shows their scores for each 2021 competition they played in. **(7)**

|  |  |  |  |
| --- | --- | --- | --- |
| scotGolfNo | forename | surname | score |
| 3543149 | Horace | Garry | 80 |
| 3543149 | Horace | Garry | 83 |
| 3543149 | Horace | Garry | 87 |
| 4965508 | Caterina | Grunewald | 92 |
| 1307246 | Ben | Jones | 75 |
| 1307246 | Ben | Jones | 78 |
| 1878811 | Tristian | O'Reilly | 79 |
| 1878811 | Tristian | O'Reilly | 86 |
| 1878811 | Tristian | O'Reilly | 88 |
| 1878811 | Tristian | O'Reilly | 88 |
| 1878811 | Tristian | O'Reilly | 99 |
| 4766196 | Callum | Sinclair | 76 |
| 4766196 | Callum | Sinclair | 77 |
| 4766196 | Callum | Sinclair | 82 |
| 4766196 | Callum | Sinclair | 84 |
| 4766196 | Callum | Sinclair | 85 |
| 4766196 | Callum | Sinclair | 86 |
| 4766196 | Callum | Sinclair | 88 |
| 4766196 | Callum | Sinclair | 88 |
| … | … | … | … |

SELECT Golfer.scotGolfNo, forename, surname, score

FROM Golfer JOIN Result ON Golfer.scotGolfNo = Result.scotGolfNo

WHERE age = “Junior” AND club = “Lamlash Golf Club” AND year = 2021

ORDER BY surname ASC, ??? forename needs to match with the right surname

**A hard one to finish with. Read carefully!!**

**Question 8 –** The output below displays the results of the 2022, Ladies, Sanquhar Open competition. **(7)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| resultID | forename | surname | score | handicap |
| SAQ0033 | Anja | Greally | 101 | 16 |
| SAQ0040 | Hollis | Cassano | 99 | 22 |
| SAQ0031 | Morag | Peterson | 97 | 20 |
| SAQ0046 | Alice | Jennings | 96 | 19 |
| SAQ0047 | Xia | Shuren | 96 | 18 |
| SAQ0049 | Jess | Wright | 94 | 16 |
| SAQ0037 | Fenella | Cuyper | 93 | 24 |
| SAQ0038 | Carol | Munro | 92 | 11 |
| SAQ0036 | Liu | He | 88 | 13 |
| SAQ0039 | Jaqueline | Christopherso | 87 | 12 |
| SAQ0043 | Erlea | Devine | 86 | 9 |
| SAQ0041 | Bridget | McTear | 84 | 6 |
| SAQ0042 | Nicki | Bunton | 81 | 1 |
| SAQ0045 | Milka | Lennox | 81 | 7 |
| SAQ0032 | Rhoda | Sherburn | 79 | 3 |
| SAQ0034 | Niomi | Quinn | 79 | 4 |
| SAQ0044 | Athina | Karl | 79 | 6 |
| SAQ0048 | Georgie | Mccauley | 78 | 1 |
| SAQ0035 | Suzanne | Cohen | 74 | 1 |
| … | … | … |  | … |

SELECT resultID, forename, surname, score, handicap

FROM Golfer JOIN Result ON Golfer.scotGolfNo = Result.scotGolfNo

WHERE competition = “Sanquhar Open”, type = “Ladies”, year = 2022

ORDER BY score DESC, ???

