Task 2

1. Show the name of the town from which the player with player\_id number ‘001’comes.

**select town from player where player\_no = 1;**

1. Show the name and address of the player that recommended supporter number ‘499’.

**select player.name,player.town from player,supporter where supporter.supporter\_id = 499 and supporter.nominated\_by = player.player\_no;**

1. Show the names and player identities (ids) of players that have borrowed a copy of the trumpet piece for the music composed by ‘Hummel’.

**select player.name,player.player\_no from music\_piece,composer,instrument\_piece,issue,player**

**where music\_piece.composer\_id = composer.composer\_id**

**and composer.name = 'Hummel'**

**and instrument\_piece.piece\_id = music\_piece.piece\_id**

**and instrument\_piece.name like '%trumpet%'**

**and issue.piece\_id = instrument\_piece.piece\_id**

**and issue.part\_id = instrument\_piece.part\_id**

**and player.player\_no = issue.player\_no;**

1. Show the performance attended on 10/9/05 by the supporter recommended by the player with id ‘078’.

**select performance\_comment.comment from supporter,free\_entry,performance,performance\_comment**

**where supporter.nominated\_by = 78**

**and free\_entry.supporter\_id = supporter.supporter\_id**

**and performance.performance\_id = free\_entry.performance\_id**

**and performance.perform\_date = '2005/09/10'**

**and performance\_comment.performance\_id = performance.performance\_id;**

1. List the titles of music pieces that are exactly the same length as other pieces.

**SELECT music\_piece.name,length from music\_piece where length in (Select length FROM music\_piece group by length having count(length) > 1 );**

1. List the names of all players who have borrowed a copy of an instrument piece for the music titled ‘Sheep May Safely Graze’.

**SELECT distinct player.name FROM music\_piece,instrument\_piece,music\_copy,issue,player**

**where music\_piece.name = "Sheep May Safely Graze"**

**and instrument\_piece.piece\_id = music\_piece.piece\_id**

**and music\_copy.piece\_id = instrument\_piece.piece\_id**

**and music\_copy.part\_id = instrument\_piece.part\_id**

**and music\_copy.copy\_id = issue.copy\_id**

**and music\_copy.part\_id = issue.copy\_id**

**and music\_copy.piece\_id = issue.piece\_id**

**and player.player\_no = issue.player\_no;**

1. List the names and player ids of players who have borrowed a copy of a music piece and have not returned it.

**SELECT Distinct player.name,player.player\_no FROM issue,player where end\_date IS NULL**

**and issue.player\_no = player.player\_no;**

1. List the names and player ids for players who have borrowed a copy of a music piece and did not return it within 10 days.  
   **SELECT Distinct player.name,player.player\_no FROM fnqbrassband.issue,player**

**where (end\_date - start\_date > 10 or end\_Date IS NULL)**

**and issue.player\_no = player.player\_no;**

1. List the names and player ids for players who have never recommended a supporter.

**SELECT Distinct player.name,player.player\_no FROM player,supporter**

**where player.player\_no NOT IN (Select supporter.nominated\_by from supporter);**

1. List the names and player ids for players who have recommended at least one supporter.

**SELECT Distinct player.name,player.player\_no FROM player,supporter where player.player\_no IN (Select supporter.nominated\_by from supporter);**

1. List the names and player ids for players who have recommended precisely two supporters.

**Select player.player\_no,player.name from player,supporter where player.player\_no = supporter.nominated\_by group by nominated\_by having count(nominated\_by) > 1**

1. List the names and player ids for all players and sort the list in reverse alphabetical order (Z to A)

**Select player.name,player.player\_no from player order by player.name DESC**

1. Show the average length of performances in which music composed by the music composer with id number ‘1’ are performed.

**SELECT AVG(length) FROM music\_piece join Program on program.piece\_id = music\_piece.piece\_id where music\_piece.composer\_id = 1 group by program.performance\_id**

1. List the names and composer ids for music composers who have composed precisely the same number of music pieces as the music composer with id number ‘1’.

**SELECT composer.name, music\_piece.composer\_id from music\_piece,composer where composer.composer\_id = music\_piece.composer\_id group by composer\_id having count(music\_piece.piece\_id) = (Select count(music\_piece.piece\_id) from music\_piece where composer\_id = 1) and music\_piece.composer\_id != 1 ;**

1. Show the average salary of all players for each type of instrument (note, a player may play more than one type of instrument and therefore should be counted in the calculation for each instrument type).

**SELECT instrument.description,avg(performance.player\_fee) as average\_salary FROM instrument, hire, player, attendence, performance where instrument.instrument\_no = hire.instrument\_no and hire.player\_no = player.player\_no**

**and attendence.player\_no = player.player\_no and performance.performance\_id = attendence.performance\_id**

**group by instrument.description order by instrument.description;**

1. In a correctly implemented database a single copy may not be loaned to several players at a single point in time. However,in such a database it is still possible for a copy to be borrowed before it has been returned (i.e.,booking of a copy that is currently on loan). Create a query that lists all such occurrences.

**select issue1.player\_no as onloan\_playerno, issue2.player\_no as Booked\_player\_no, issue1.part\_id,issue1.copy\_id,issue1.piece\_id**

**from issue as issue1, issue as issue2**

**where issue1.end\_date is null**

**and issue2.end\_date is null**

**and issue1.player\_no != issue2.player\_no**

**and issue1.copy\_id = issue2.copy\_id**

**and issue1.part\_id = issue2.part\_id**

**and issue1.piece\_id = issue2.piece\_id;**

1. List all player names along with the names of their respective supporters.

**SELECT player.name,supporter.name as Suppoter\_Name FROM player left join supporter on supporter.nominated\_by = player.player\_no**

1. List the titles of all music pieces performed at the performance held on 10/9/05, and for which a copy of an instrument piece has, on some occasion, been loaned to the player with player id ‘**065’.**

**select distinct music\_piece.name from performance, program , music\_piece, instrument\_piece where performance.perform\_date = '2005/09/10' and performance.performance\_id = program.performance\_id and program.piece\_id = music\_piece.piece\_id and music\_piece.piece\_id IN (select issue.piece\_id from issue where issue.player\_no = 65);**