

DEPARTMENT OF COMPUTER ENGINEERING

CNG 351 Data Management and File Structures Assignment 4

Team Details

Member 1

Member 2

Name: Mert Can Surname: Bilgin

Student ID: 2453025

Name: Hami

Surname: Karslı

Student ID: 2453322

<u>Use Case 1 – Find.Job</u>

Queries:

1. List the id, name, surname and telephone number of all members in the system.

SQL> SELECT member_	id, name, surname, tel	FROM Member;	
MEMBER_ID	NAME	SURNAME	TEL
4094	Lesley	Glison	3157117898
1333	Teddy	Studdeard	4374040869
	•		
9888	Gale	Etty	2594272038
7324	Katti	Broggini	9195006297
3088	Yeliz	Yesilada	5905773542

2. List the name and the date of creation of the groups that are "Unlisted" (type) and created by the member with the ID of 1333.

3. List the name, surname, and email address of the Members who created Standard groups after the 1st of January 2022.

```
SQL> SELECT name, surname, email
2 FROM Member
3 WHERE member_id IN (SELECT created_by FROM GroupInfo WHERE group_type = 'Standard' AND creation_date > DATE'2022-01-01');

NAME SURNAME

EMAIL

Teddy Studdeard
tstuddeard6@theglobeandmail.com

Katti Broggini
kbroggini8@photobucket.com
```

4. We would like to display all the posts (listing their title and content) that are made by all the connections of the member called "Yeliz Yesilada".

```
SQL> SELECT title, content

2 FROM Post

3 WHERE posted_by IN(SELECT connection_member_id FROM ConnectionList WHERE

4 member_id = (SELECT member_id FROM Member WHERE name = 'Yeliz' AND surname = 'Yesilada'));

TITLE

CONTENT

Winning
If winning is not everything...why do we keep score?

Jave programming codeGO
This competition where all contest fosters creativity, teamwork, and innovation in building new software programs, and enables students to test their ability to perform under pressure.
```

5. There is a company called "Curiosity" and this company would like to receive a report that shows the list of employee names (name/surname) that has created a group, the name of that group and also the manager name/surname of that group.

```
SQL> SELECT M.name, M.surname, G.group_name, Mng.name, Mng.surname
 2 FROM Member M
 3 JOIN GroupInfo G ON M.member_id = G.created_by
 4 JOIN Member Mng ON G.manager_id = Mng.member_id
 5 WHERE M.company_id = (SELECT company_id FROM Company WHERE companyname = 'Curiosity');
NAME
                   SURNAME
                                       GROUP_NAME
NAME
                   SURNAME
Katti
                   Broggini
                                       Art
Katti
                   Broggini
Katti
                   Broggini
                                     Next Sports
                   Glison
Lesley
```

6. There is an assessment in the system named as "Introduction to Phyton". We would like to list the name/surname of the members and how many times they took this assessment.

```
SQL> SELECT M.name, M.surname, COUNT(M.member_id)

2 FROM AssessmentTaken A1, Assessment A2, Member M

3 WHERE A2.name = 'Introduction to Phyton' AND A1.assessment_id = A2.assessment_id

4 AND A1.member_id = M.member_id

5 GROUP BY M.member_id, M.name, M.surname;

NAME SURNAME COUNT(M.MEMBER_ID)

Teddy Studdeard 3

Katti Broggini 1
```

<u>Use Case 2 – NCCCloud</u>

Content of the Tables:

User:



USERNAME	
NAME	
SURNAME	
EMAIL	DOB
irevie3 David Irevie irevie3@gmail.com	22-MAY-98

Subscription:

SQL> SELECT * FROM S	ubscription;	
SUBSCRIPTION_ID		ТҮРЕ
MONTHLY_PRICE	PAYMENT_TYPE	
1 450	credit-card	- high
2 350	PayPal	mid
3 150	bank-transfer	low
SUBSCRIPTION_ID		ТҮРЕ
MONTHLY_PRICE	PAYMENT_TYPE	
4 450	credit-card	- high
5 450	credit-card	low

UserSubscription:

SQL> SELECT * FROM UserSubscription;		
USERNAME		
SUBSCRIPTION_ID	START_DAT	END_DATE
nheinritz0 1	18-FEB-21	18-0CT-21
ssolan5 2	23-MAY-22	23-MAY-22
mrozenbaum1 3	03-DEC-22	03-JUN-23
USERNAME		
SUBSCRIPTION_ID	START_DAT	END_DATE
irevie3 5		31-DEC-23
nheinritz0 4	19-0CT-21	19-0CT-22

Computer:

COLL SELECT # EDOM S	
SQL> SELECT * FROM Computer;	
ID	PRICE
CPU	
GPU 	TIME_BOUG MAINTENAN
1	12000
AMD Ryzen 3 4100 Processor Nvdia GTX 1650	15-MAR-21 21-DEC-21
WATE GIV 1030	13-MAN-21 21-DEC-21
2 Intel⊤« CoreΓäó i7-12700F Processor	36000
Nvdia RTX 3080	27-JAN-22 30-JUN-22
ID	PRICE
CPU	
GPU	TIME BOUG MAINTENAN
3	66000
- Intel _⊤ « CoreΓäó i9-12900K Processor	
Nvdia RTX 3090	06-MAY-22 06-NOV-22
4	12000
AMD Ryzen 3 4100 Processor	
ID	PRICE
601	
CPU 	
GPU	TIME_BOUG MAINTENAN
 Nvdia GTX 1650	15-MAR-21 21-DEC-21
	23 75111 22 21 520 21

5 Intel _T « CoreΓäó i7-12700F Processor	36000
Nvdia RTX 3080	27-JAN-22 30-JUN-22
	66000
ID	PRICE
CPU	
GPU	TIME_BOUG MAINTENAN
Intel _T « CoreΓäó i9-12900K Processor	
Nvdia RTX 3090	06-MAY-22 06-NOV-22
	12000
AMD Ryzen 3 4100 Processor Nvdia GTX 1650	15-MAR-21 21-DEC-21
ID	PRICE
CPU	
GPU	TIME_BOUG MAINTENAN
8	66000
Intel _T « CoreFäó i9-12900K Processor Nvdia RTX 3090	06-MAY-22 06-NOV-22
9	36000
Intel⊤« CoreΓäó i7-12700F Processor	
	27-JAN-22 30-JUN-22
Nvdia RTX 3080	27-JAN-22 30-JUN-22 PRICE
Nvdia RTX 3080 ID	
Inteligration 17-12700F Processor ID CPU	

10 AMD Ryzen 3 4100 Processor	12000
Nvdia GTX 1650	15-MAR-21 21-DEC-21
11	66000
Intel _T « Coreſäó i9-12900K Processor	
ID	PRICE
CPU	
GPU	TIME_BOUG MAINTENAN
Nvdia RTX 3090	06-MAY-22 06-NOV-22
12 Intel⊤« CoreΓäó i7-12700F Processor	36000
Nvdia RTX 3080	27-JAN-22 30-JUN-22
13	66000
ID	PRICE
СРИ	
GPU	TIME_BOUG MAINTENAN
Intel _T « CoreГäó i9-12900K Processor Nvdia RTX 3090	06-MAY-22 06-NOV-22
114	66000
Intel⊤« CoreFäó i9-12900K Processor	
Nvdia RTX 3090	06-MAY-22 06-NOV-22
_	

14 Intel⊤« CoreΓäó i9-12900K Processor	66000
Nvdia RTX 3090	06-MAY-22 06-NOV-22
ID	PRICE
CPU	
GPU	TIME_BOUG MAINTENAN
15 Intel⊤« CoreΓäó 17-12700F Processor	36000
Nvdia RTX 3080	27-JAN-22 30-JUN-22
16	66000
Intel _T « CoreFäó i9-12900K Processor Nvdia RTX 3090	06-MAY-22 06-NOV-22
ID	PRICE
CPU	
GPU	TIME_BOUG MAINTENAN
47	
17 Intel _T « Coreſäó i7-12700F Processor	36000
Nvdia RTX 3080	27-JAN-22 30-JUN-22
18 Intel _T « CoreFäó i7-12700F Processor	36000
ID	PRICE
CPU	
GPU	TIME_BOUG MAINTENAN
Nvdia RTX 3080	27-JAN-22 30-JUN-22

Game:

```
SQL> SELECT * FROM Game;
SAME ID
 AME NAME
SAME DESCRIPTION
ood of War Ragnar⊣k is an action-adventure game developed by Santa Monica Studi
o and published by Sony Interactive Entertainment. It was released worldwide on
November 9, 2022, for the PlayStation 4 and PlayStation 5, marking the first cro
ss-gen release in the God of War series.
SAME_ID
SAME NAME
 AME_DESCRIPTION
 yberpunk 2077
cyberpunk 2077 is an action role-playing video game developed by CD Projekt Red
and published by CD Projekt. The story takes place in Night City, an open world
set in the Cyberpunk universe.
GAME_ID
SAME_NAME
SAME_DESCRIPTION
Assassin's Creed Valhalla
Assassin's Creed Valhalla is a 2020 action role-playing video game developed by
Jbisoft Montreal and published by Ubisoft. It is the twelfth major installment i
n the Assassin's Creed series, and the successor to 2018's Assassin's Creed Odys
GAME_ID
GAME NAME
GAME DESCRIPTION
The Witcher 3: Wild Hunt
The Witcher 3: Wild Hunt is a 2015 action role-playing game developed and publis
hed by CD Projekt. It is the sequel to the 2011 game The Witcher 2: Assassins of
Kings and the third game in The Witcher video game series, played in an open wo
rld with a third-person perspective.
GAME_ID
GAME NAME
GAME DESCRIPTION
Don't Starve Together
Don't Starve Together is the standalone multiplayer expansion of the uncompromis
ing wilderness survival game, Don't Starve. Now including Reign of Giants; addin
g new characters, seasons, creatures, biomes, and Giant new challenges to Don't
Starve Together.
GAME ID
GAME NAME
GAME DESCRIPTION
We Were Here Together
Embark on a puzzle solving adventure in which you and a partner must prove you c
 n communicate and work together to escape the haunted Castle Rock.
```

Library:

SQL> SELECT * FROM Library;	
LIBRARY_CONNECTION_TOKEN	
USERNAME	LIBRARY_NAME
044e61f9d672	
nheinritz0	Steam
9f9d8e6173ea	
ssolan5	Epic Games
074a94021595	
mrozenbaum1	Steam
LIDDADY CONNECTION TOWEN	
LIBRARY_CONNECTION_TOKEN	
USERNAME	LIBRARY_NAME
881cd083a7c2	
irevie3	Steam
1e89613783dd	
irevie3	Epic Games

LibraryGame:

```
SQL> SELECT * FROM LibraryGame;
LIBRARY_CONNECTION_TOKEN
GAME_ID
044e61f9d672
044e61f9d672
044e61f9d672
LIBRARY_CONNECTION_TOKEN
GAME_ID
074a94021595
074a94021595
074a94021595
LIBRARY_CONNECTION_TOKEN
GAME_ID
1e89613783dd
1e89613783dd
881cd083a7c2
```

PlaySession:

SQL> SELECT * FROM PlaySession;
GAME_ID
COMPUTER_ID
LIBRARY_CONNECTION_TOKEN
START_DATE_TIME
END_DATE_TIME
1 4 044e61f9d672
GAME_ID
COMPUTER_ID
LIBRARY_CONNECTION_TOKEN
START_DATE_TIME
END_DATE_TIME
10-OCT-22 01.50.00.000000 PM 10-OCT-22 03.50.00.000000 PM
GAME_ID
COMPUTER_ID
LIBRARY_CONNECTION_TOKEN
START_DATE_TIME
END_DATE_TIME
2

AME_ID
OMPUTER_ID
IBRARY_CONNECTION_TOKEN
TART_DATE_TIME
ND_DATE_TIME
8-NOV-22 06.36.00.000000 PM 8-NOV-22 11.06.00.000000 PM
AME_ID
OMPUTER_ID
IBRARY_CONNECTION_TOKEN
TART_DATE_TIME
ND_DATE_TIME
74a94021595
AME_ID
OMPUTER_ID
IBRARY_CONNECTION_TOKEN
TART_DATE_TIME
ND_DATE_TIME
3-APR-22 09.50.00.000000 AM 8-NOV-22 12.53.00.000000 PM

GAME_ID
COMPUTER_ID
LIBRARY_CONNECTION_TOKEN
START_DATE_TIME
END_DATE_TIME
3
3 1e89613783dd
GAME_ID
COMPUTER_ID
LIBRARY_CONNECTION_TOKEN
START_DATE_TIME
END_DATE_TIME
18-OCT-22 09.38.00.000000 PM 18-OCT-22 10.01.00.000000 PM
GAME_ID
COMPUTER_ID
LIBRARY_CONNECTION_TOKEN
START_DATE_TIME
END_DATE_TIME
3
044e61f9d672

```
COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

END_DATE_TIME

14-OCT-22 01.50.00.000000 PM

14-OCT-22 03.50.00.000000 PM

GAME_ID

COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

END_DATE_TIME

2
10
979d8e6173ea

GAME_ID

COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

2
10
START_DATE_TIME

2
10
START_DATE_TIME

END_DATE_TIME

END_DATE_TIME

END_DATE_TIME

END_DATE_TIME

END_DATE_TIME

END_DATE_TIME
```

```
GAME_ID

COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

END_DATE_TIME

5
12
074a94021595

GAME_ID

COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

END_DATE_TIME

16-OCT-22 01.58.00.000000 PM
16-OCT-22 03.47.00.000000 PM

GAME_ID

COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

END_DATE_TIME

16-OCT-22 03.47.00.000000 PM

GAME_ID

COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

END_DATE_TIME

END_DATE_TIME

END_DATE_TIME

END_DATE_TIME
```

```
GAME_ID

COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

END_DATE_TIME

4

19

044e61f9d672

GAME_ID

COMPUTER_ID

LIBRARY_CONNECTION_TOKEN

START_DATE_TIME

END_DATE_TIME

13-NOV-22 10.10.00.000000 PM
14-NOV-22 12.26.00.0000000 AM
```

Queries:

1. List the username, name, surname and email address of all users in the system.





2. List the price, cpu and gpu details of all computers that costed more than 15000 and were bought after the 30th of January 2022, and they have a maintenance date after 10th of June 2022.

SQL> SELECT price, cpu, gpu FROM Computer 2 WHERE price > '15000' AND time_bought > TO_DATE('30/01/2022', 'DD/MM/YYYY') AND maintenance_date > TO_DATE('10/06/2022', 'DD/MM/YYYY');
PRICE
GPU
66000 Intel⊤« CoreГäó i9-12900K Processor Nvdia RTX 3090
PRICE
CPU
66000 Intel⊤« CoreΓäó i9-12900K Processor Nvdia RTX 3090
66000 Intel _T « CoreFäó i9-12900K Processor
PRICE
 Nvdia RTX 3090

66000 Intel _T « CoreΓäó i9-12900K Processor
PRICE
СРИ
GPU
 Nvdia RTX 3090
66000 Intel _T « CoreΓäó i9-12900K Processor Nvdia RTX 3090
66000
PRICE
CPU
GPU
Intel _T « CoreГäó i9-12900K Processor Nvdia RTX 3090
66000 Intel _T « CoreΓäó i9-12900K Processor Nvdia RTX 3090
7 rows selected

3. List the name and surname of all the users who have a subscription after the 1st of January 2022. We are interested in the starting date of the subscriptions.

```
SQL> SELECT name, surname FROM Users, UserSubscription

2 WHERE Users.username = UserSubscription.username AND

3 start_date > TO_DATE('01/01/2022','DD/MM/YYYY');

NAME

SURNAME

Salim
Sloan

Rozen
Baum
```

4. List the name, surname and the ID of the games that are stored in the libraries of all users.

```
SELECT name, surname, Game.game_id
FROM Users, Library, LibraryGame, Game
WHERE Users.username = Library.username
AND Library.library_connection_token = LibraryGame.library_connection_token
AND LibraryGame.game_id = Game.game_id;
SURNAME
SAME_ID
Nil
---
Heinritz
Nil
 einritz
NAME
SURNAME
SAME ID
Nil
Heinritz
Rozen
Baum
 ΔMF
SURNAME
 AME_ID
```

```
Rozen

Rozen

NAME

SURNAME

GAME_ID

Baum

6

David
Irevie
2

NAME

SURNAME

SURNAME

Javid
Irevie

SURNAME

SURNAME

SURNAME

SURNAME

SURNAME

SOURNAME

SOURNAME
```

```
NAME
SURNAME
GAME_ID

David
Irevie
4

Salim
Sloan

NAME

SURNAME

GAME_ID

2

11 rows selected.
```

5. List the name, surname of all the users that played the game "Assassin's Creed Valhalla" after the 17th of October. You need to list only the users who played with the Computer with a GPU of Nvdia RTX 3090.

6. List the name, surname of all users and their total play time for the game "Assassin's Creed Valhalla".

```
SQL> SELECT name, surname, SUM((CAST(end_date_time as date) - CAST(start_date_time as date))*1440)
 2 AS TotalPlayTimeinMinutes
    FROM Users LEFT JOIN Library
 4 ON Library.username = Users.username
 5 LEFT JOIN PlaySession
 6 ON Library.library_connection_token = PlaySession.library_connection_token
 7 LEFT JOIN Game
 8  ON PlaySession.game_id = Game.game_id
9  WHERE Game.game_name = 'Assassin''s Creed Valhalla'
 10 GROUP BY name, surname;
NAME
SURNAME
                                            TOTALPLAYTIMEINMINUTES
David
Irevie
                                                                  23
Nil
Heinritz
                                                                 120
```