

CPS510 Fall2021 Section 04

Group-11

Assignment 4

Simple Queries

Demo of Designing Views/ Simple Queries

Application Name: Online Job Bank System.

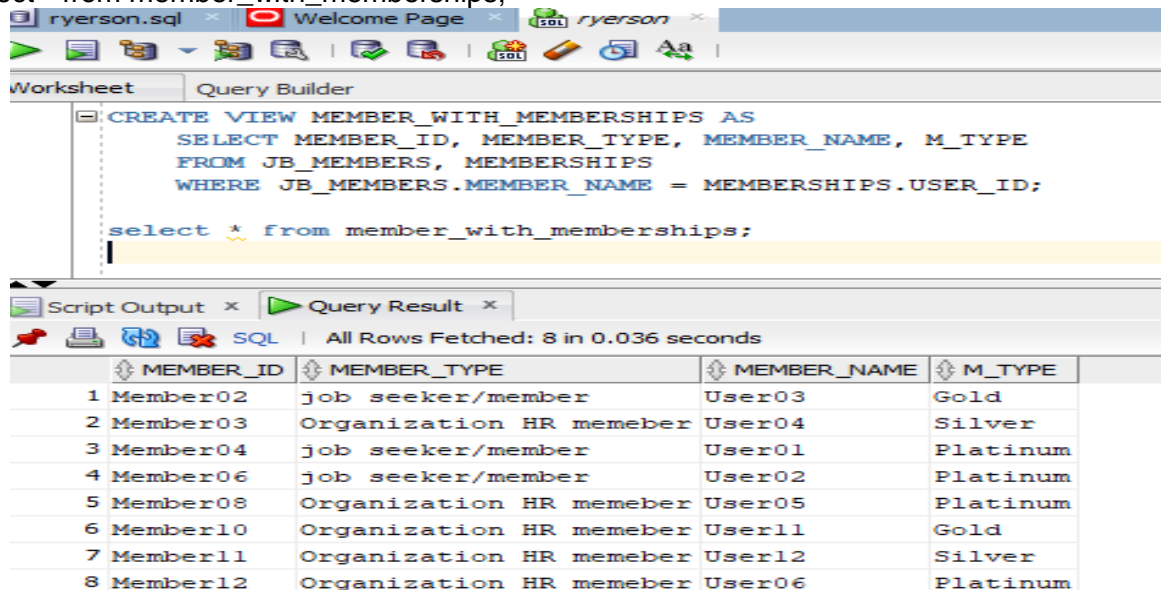
Group Member names:

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Student#: 500969935

-- Table Views

```
CREATE VIEW MEMBER_WITH_MEMBERSHIPS AS
SELECT MEMBER_ID, MEMBER_TYPE, MEMBER_NAME, M_TYPE
FROM JB_MEMBERS, MEMBERSHIPS
WHERE JB_MEMBERS.MEMBER_NAME = MEMBERSHIPS.USER_ID;
```

select * from member_with_memberships;



The screenshot shows the SQL Developer interface. The top pane displays the SQL script for creating the view and querying it. The bottom pane shows the query results in a table format.

Worksheet: Query Builder

```
CREATE VIEW MEMBER_WITH_MEMBERSHIPS AS
SELECT MEMBER_ID, MEMBER_TYPE, MEMBER_NAME, M_TYPE
FROM JB_MEMBERS, MEMBERSHIPS
WHERE JB_MEMBERS.MEMBER_NAME = MEMBERSHIPS.USER_ID;

select * from member_with_memberships;
```

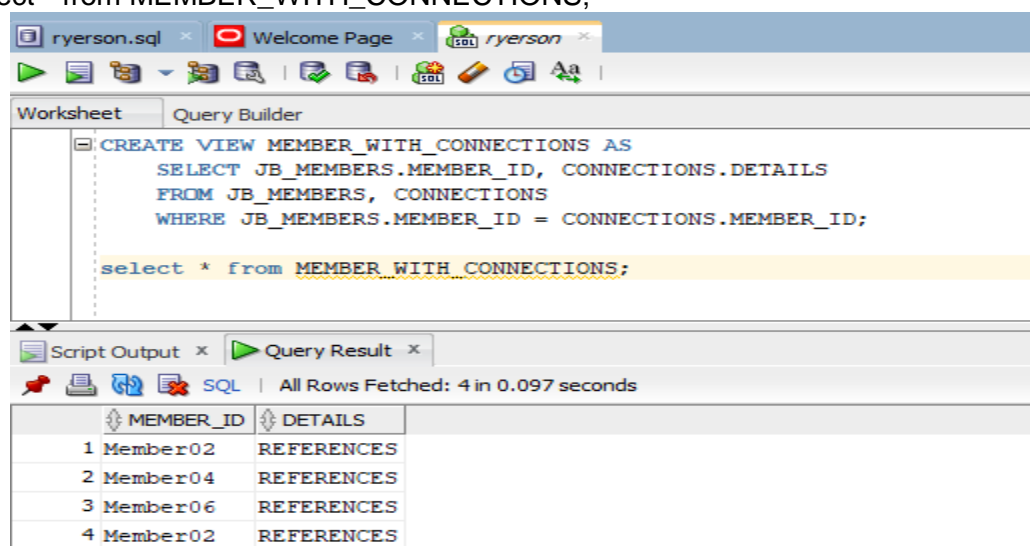
Script Output: Query Result

All Rows Fetched: 8 in 0.036 seconds

	MEMBER_ID	MEMBER_TYPE	MEMBER_NAME	M_TYPE
1	Member02	job seeker/member	User03	Gold
2	Member03	Organization HR memeber	User04	Silver
3	Member04	job seeker/member	User01	Platinum
4	Member06	job seeker/member	User02	Platinum
5	Member08	Organization HR memeber	User05	Platinum
6	Member10	Organization HR memeber	User11	Gold
7	Member11	Organization HR memeber	User12	Silver
8	Member12	Organization HR memeber	User06	Platinum

```
CREATE VIEW MEMBER_WITH_CONNECTIONS AS
SELECT JB_MEMBERS.MEMBER_ID, CONNECTIONS.DETAILS
FROM JB_MEMBERS, CONNECTIONS
WHERE JB_MEMBERS.MEMBER_ID = CONNECTIONS.MEMBER_ID;
```

select * from MEMBER_WITH_CONNECTIONS;



The screenshot shows the SQL Developer interface. The top pane displays the SQL script for creating the view and querying it. The bottom pane shows the query results in a table format.

Worksheet: Query Builder

```
CREATE VIEW MEMBER_WITH_CONNECTIONS AS
SELECT JB_MEMBERS.MEMBER_ID, CONNECTIONS.DETAILS
FROM JB_MEMBERS, CONNECTIONS
WHERE JB_MEMBERS.MEMBER_ID = CONNECTIONS.MEMBER_ID;

select * from MEMBER_WITH_CONNECTIONS;
```

Script Output: Query Result

All Rows Fetched: 4 in 0.097 seconds

	MEMBER_ID	DETAILS
1	Member02	REFERENCES
2	Member04	REFERENCES
3	Member06	REFERENCES
4	Member02	REFERENCES

```
CREATE VIEW ORGANIZATIONS_WITH_DEPARTMENTS AS
SELECT RECR_ID, DEPART_NAME, NO_EMPLOYEES
FROM RECRUITERS, DEPARTMENTS
WHERE RECR_ID = ORG_ID;
```

```
select * from ORGANIZATIONS_WITH_DEPARTMENTS;
```

The screenshot shows the SQL Developer interface. The 'Query Builder' tab is active, displaying the SQL code for creating the view and the subsequent select statement. Below the code, the 'Query Result' tab shows the output of the select statement, which is a table with 18 rows and 3 columns: RECR_ID, DEPART_NAME, and NO_EMPLOYEES.

RECR_ID	DEPART_NAME	NO_EMPLOYEES
1 Org01	HR	9
2 Org02	HR	10
3 Org03	HR	12
4 Org04	HR	14
5 Org05	HR	20
6 Org06	HR	5
7 Org01	Administration	10
8 Org02	Administration	7
9 Org03	Administration	4
10 Org04	Administration	9
11 Org05	Administration	6
12 Org06	Administration	12
13 Org01	Accounting and Finance	4
14 Org02	Accounting and Finance	3
15 Org03	Accounting and Finance	7
16 Org04	Accounting and Finance	9
17 Org05	Accounting and Finance	5

```
CREATE VIEW posting_by_recruiter as
SELECT job_id,job_title,job_location FROM JB_Postings
WHERE company = 'org01';
```

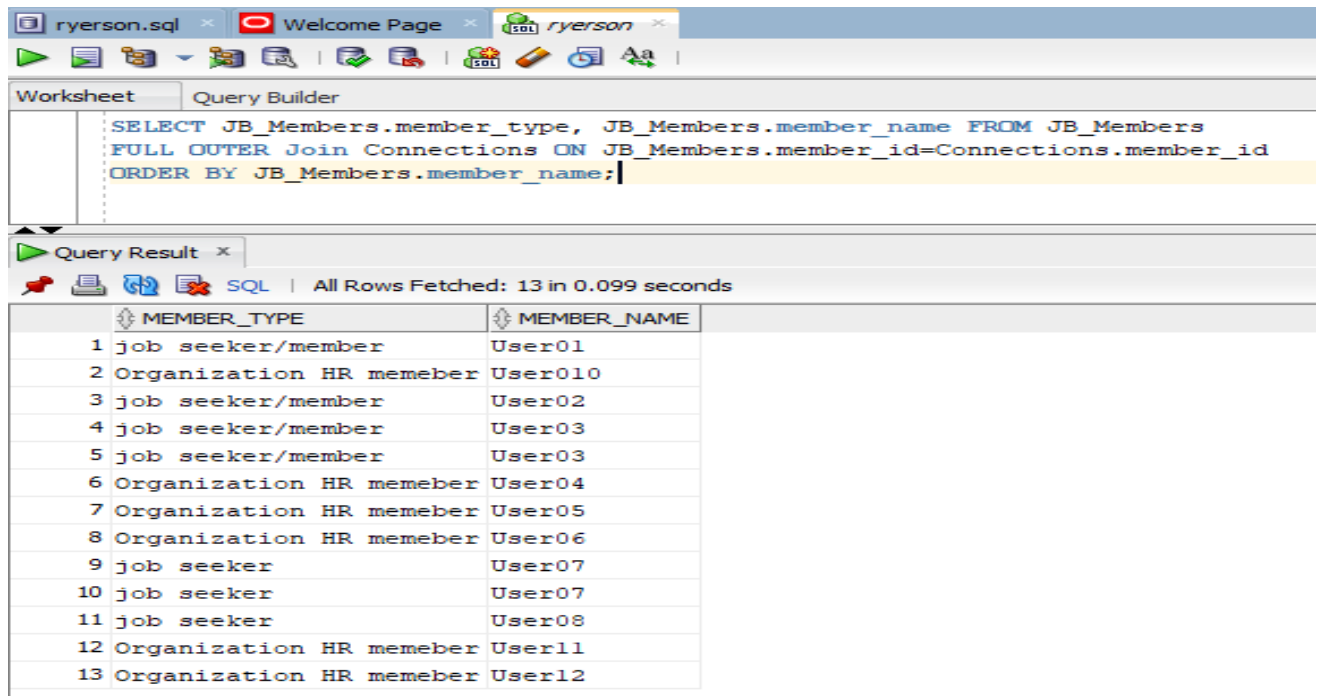
```
select * from posting_by_recruiter;
```

The screenshot shows the SQL Developer interface. The 'Query Builder' tab is active, displaying the SQL code for creating the view and the subsequent select statement. Below the code, the 'Query Result' tab shows the output of the select statement, which is a table with 4 rows and 3 columns: JOB_ID, JOB_TITLE, and JOB_LOCATION.

JOB_ID	JOB_TITLE	JOB_LOCATION
1 job#01	Assistant Manager	Downtown Toronto
2 job#07	help desk agent	Downtown Toronto
3 job#13	Data Base Developer	Downtown Toronto
4 job#19	help desk agent	Downtown Toronto

-- Join Queries

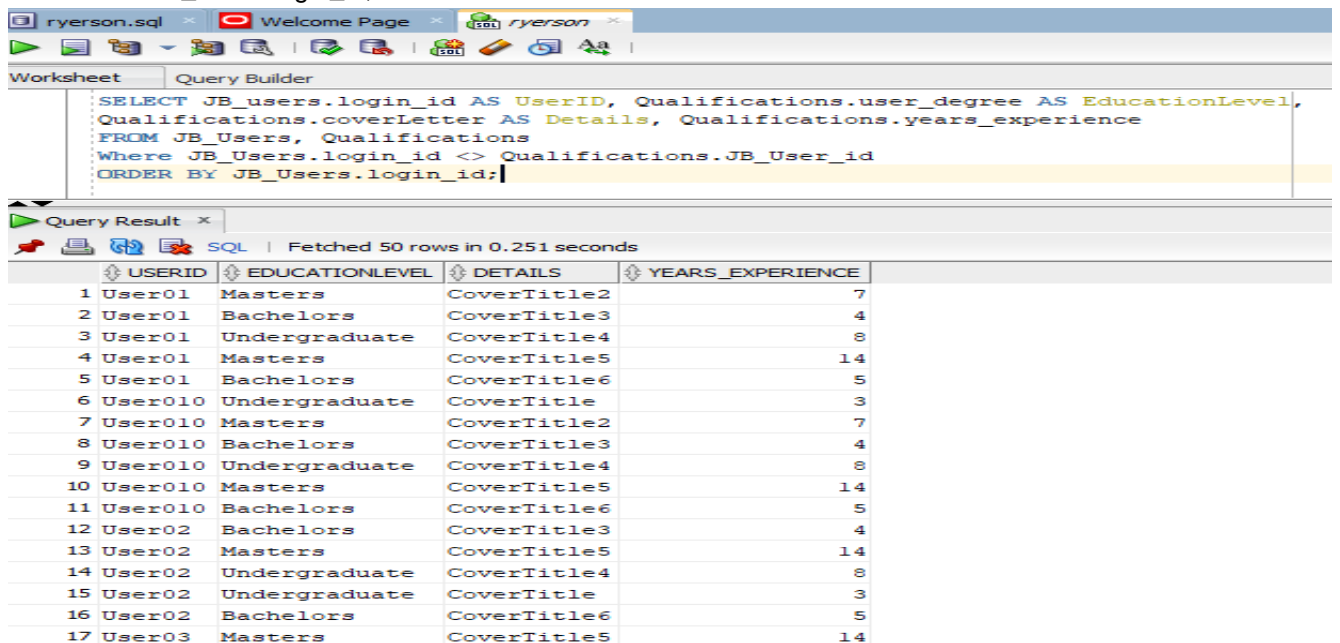
```
SELECT JB_Members.member_type, JB_Members.member_name FROM JB_Members
FULL OUTER Join Connections ON JB_Members.member_id=Connections.member_id
ORDER BY JB_Members.member_name;
```



The screenshot shows a SQL software interface with a 'Query Builder' tab. The query entered is: `SELECT JB_Members.member_type, JB_Members.member_name FROM JB_Members FULL OUTER Join Connections ON JB_Members.member_id=Connections.member_id ORDER BY JB_Members.member_name;` The 'Query Result' tab shows 13 rows fetched in 0.099 seconds. The results are as follows:

	MEMBER_TYPE	MEMBER_NAME
1	job seeker/member	User01
2	Organization HR memeber	User010
3	job seeker/member	User02
4	job seeker/member	User03
5	job seeker/member	User03
6	Organization HR memeber	User04
7	Organization HR memeber	User05
8	Organization HR memeber	User06
9	job seeker	User07
10	job seeker	User07
11	job seeker	User08
12	Organization HR memeber	User11
13	Organization HR memeber	User12

```
SELECT JB_users.login_id AS UserID, Qualifications.user_degree AS EducationLevel,
Qualifications.coverLetter AS Details, Qualifications.years_experience
FROM JB_Users, Qualifications
Where JB_Users.login_id <> Qualifications.JB_User_id
ORDER BY JB_Users.login_id;
```

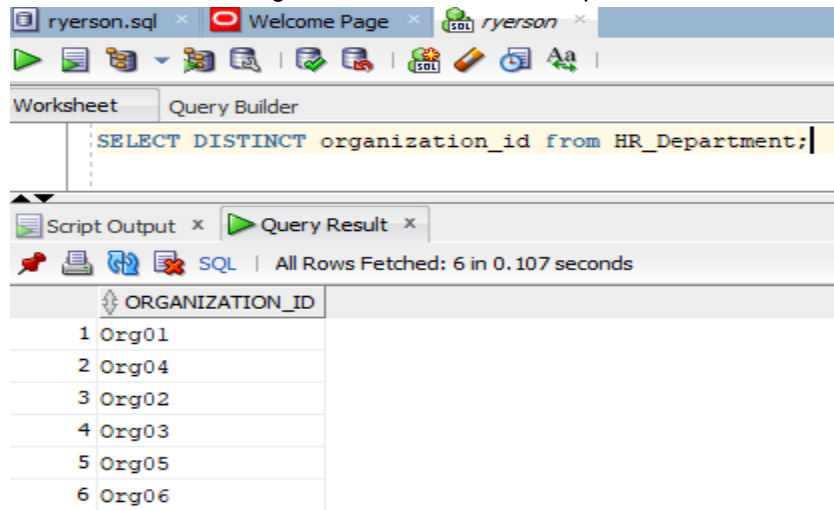


The screenshot shows a SQL software interface with a 'Query Builder' tab. The query entered is: `SELECT JB_users.login_id AS UserID, Qualifications.user_degree AS EducationLevel, Qualifications.coverLetter AS Details, Qualifications.years_experience FROM JB_Users, Qualifications Where JB_Users.login_id <> Qualifications.JB_User_id ORDER BY JB_Users.login_id;` The 'Query Result' tab shows 50 rows fetched in 0.251 seconds. The results are as follows:

	USERID	EDUCATIONLEVEL	DETAILS	YEARS_EXPERIENCE
1	User01	Masters	CoverTitle2	7
2	User01	Bachelors	CoverTitle3	4
3	User01	Undergraduate	CoverTitle4	8
4	User01	Masters	CoverTitle5	14
5	User01	Bachelors	CoverTitle6	5
6	User010	Undergraduate	CoverTitle	3
7	User010	Masters	CoverTitle2	7
8	User010	Bachelors	CoverTitle3	4
9	User010	Undergraduate	CoverTitle4	8
10	User010	Masters	CoverTitle5	14
11	User010	Bachelors	CoverTitle6	5
12	User02	Bachelors	CoverTitle3	4
13	User02	Masters	CoverTitle5	14
14	User02	Undergraduate	CoverTitle4	8
15	User02	Undergraduate	CoverTitle	3
16	User02	Bachelors	CoverTitle6	5
17	User03	Masters	CoverTitle5	14

--DISTINCT Queries

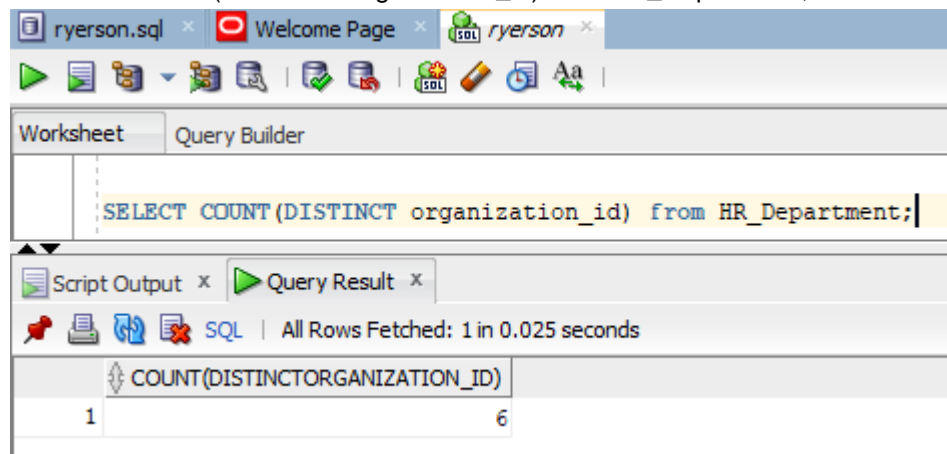
SELECT DISTINCT organization_id from HR_Department;



The screenshot shows the SQL Developer interface. The top toolbar includes icons for running queries, saving, and editing. The 'Query Builder' tab is active, displaying the query: `SELECT DISTINCT organization_id from HR_Department;`. Below the query editor, the 'Query Result' tab shows the results of the query. The status bar indicates 'All Rows Fetched: 6 in 0.107 seconds'.

ORGANIZATION_ID
1 Org01
2 Org04
3 Org02
4 Org03
5 Org05
6 Org06

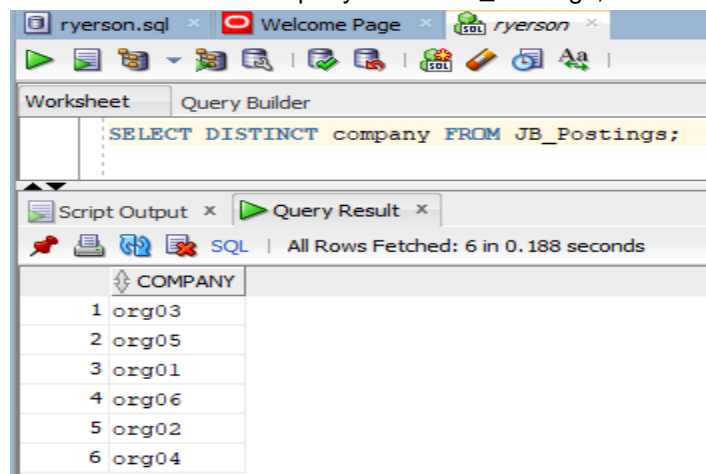
SELECT COUNT(DISTINCT organization_id) from HR_Department;



The screenshot shows the SQL Developer interface. The top toolbar includes icons for running queries, saving, and editing. The 'Query Builder' tab is active, displaying the query: `SELECT COUNT(DISTINCT organization_id) from HR_Department;`. Below the query editor, the 'Query Result' tab shows the results of the query. The status bar indicates 'All Rows Fetched: 1 in 0.025 seconds'.

COUNT(DISTINCT ORGANIZATION_ID)
1 6

SELECT DISTINCT company FROM JB_Postings;

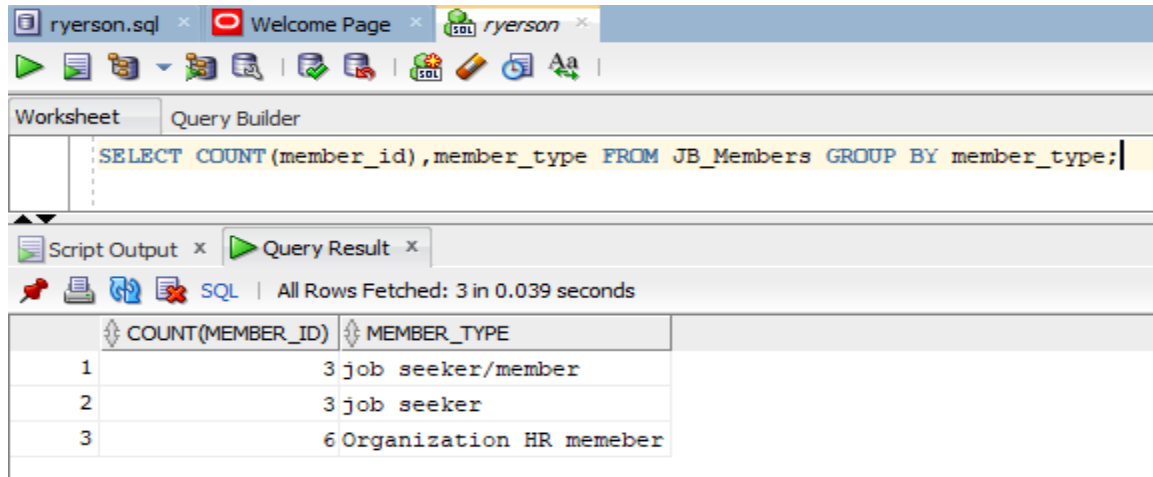


The screenshot shows the SQL Developer interface. The top toolbar includes icons for running queries, saving, and editing. The 'Query Builder' tab is active, displaying the query: `SELECT DISTINCT company FROM JB_Postings;`. Below the query editor, the 'Query Result' tab shows the results of the query. The status bar indicates 'All Rows Fetched: 6 in 0.188 seconds'.

COMPANY
1 org03
2 org05
3 org01
4 org06
5 org02
6 org04

--Grouping/Sorting Commands

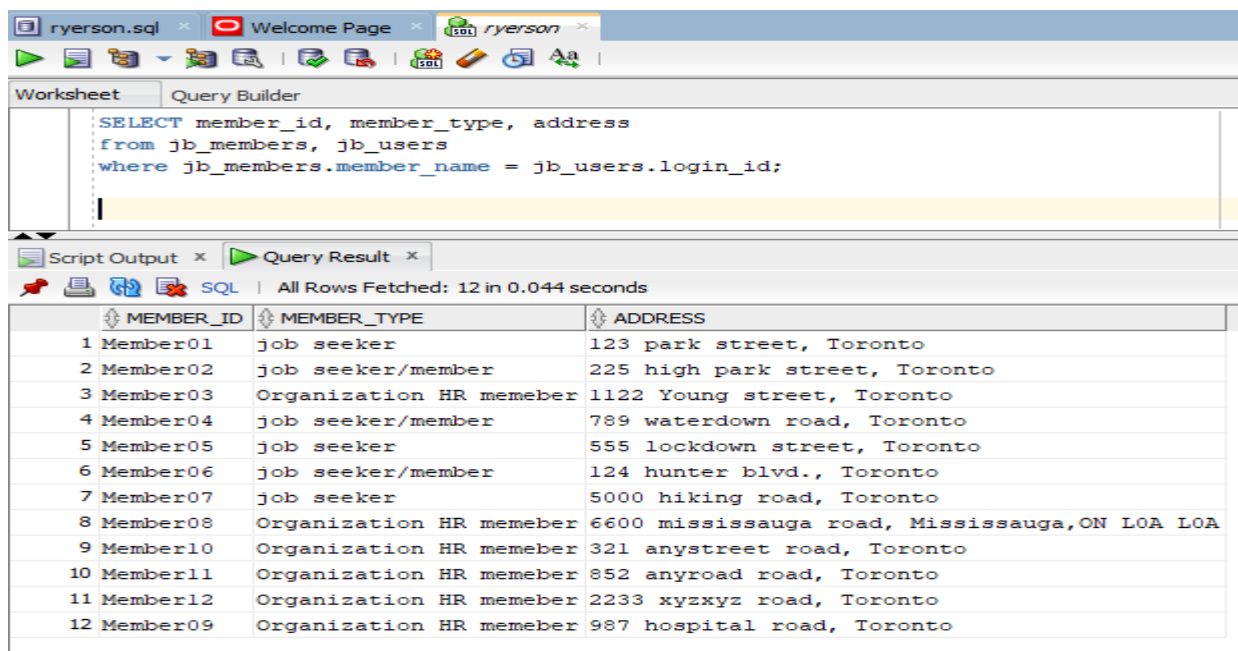
SELECT COUNT(member_id),member_type FROM JB_Members GROUP BY member_type;



The screenshot shows the SQL Developer interface with a query entered in the Query Builder: `SELECT COUNT(member_id),member_type FROM JB_Members GROUP BY member_type;`. The Query Result pane displays the following data:

	COUNT(MEMBER_ID)	MEMBER_TYPE
1	3	job seeker/member
2	3	job seeker
3	6	Organization HR memeber

- Use of **Where** clause



The screenshot shows the SQL Developer interface with a query entered in the Query Builder: `SELECT member_id, member_type, address from jb_members, jb_users where jb_members.member_name = jb_users.login_id;`. The Query Result pane displays the following data:

	MEMBER_ID	MEMBER_TYPE	ADDRESS
1	Member01	job seeker	123 park street, Toronto
2	Member02	job seeker/member	225 high park street, Toronto
3	Member03	Organization HR memeber	1122 Young street, Toronto
4	Member04	job seeker/member	789 waterdown road, Toronto
5	Member05	job seeker	555 lockdown street, Toronto
6	Member06	job seeker/member	124 hunter blvd., Toronto
7	Member07	job seeker	5000 hiking road, Toronto
8	Member08	Organization HR memeber	6600 mississauga road, Mississauga, ON L0A L0A
9	Member10	Organization HR memeber	321 anystreet road, Toronto
10	Member11	Organization HR memeber	852 anyroad road, Toronto
11	Member12	Organization HR memeber	2233 xyzxyz road, Toronto
12	Member09	Organization HR memeber	987 hospital road, Toronto

ryerson.sql Welcome Page ryerson

Worksheet Query Builder

```
SELECT permission_id, user_id, type
from memberships, jb_users
where jb_users.login_id = memberships.user_id;
```

Script Output Query Result

SQL All Rows Fetched: 8 in 0.055 seconds

	PERMISSION_ID	USER_ID	TYPE
1	PID01	User01	Platinum
2	PID02	User02	Platinum
3	PID03	User03	Gold
4	PID04	User04	Silver
5	PID05	User05	Platinum
6	PID06	User06	Platinum
7	PID08	User11	Gold
8	PID09	User12	Silver

ryerson.sql Welcome Page ryerson

Worksheet Query Builder

```
SELECT DISTINCT permission_id, user_id, type
from memberships, jb_users
where jb_users.login_id = memberships.user_id;
```

Script Output Query Result

SQL All Rows Fetched: 8 in 0.025 seconds

	PERMISSION_ID	USER_ID	TYPE
1	PID03	User03	Gold
2	PID08	User11	Gold
3	PID04	User04	Silver
4	PID06	User06	Platinum
5	PID02	User02	Platinum
6	PID05	User05	Platinum
7	PID01	User01	Platinum
8	PID09	User12	Silver

-- advanced Queries

ryerson.sql Welcome Page ryerson

Worksheet Query Builder

```
SELECT *
from jb_members
where member_name IN (select jb_user_id from qualifications);
```

Script Output Query Result

SQL All Rows Fetched: 6 in 0.103 seconds

	MEMBER_ID	MEMBER_TYPE	ADDRESS	ORG_ID	EMAIL	DATE_CREATED	MEMBER_NAME
1	Member04	job seeker/member	789 waterdown road, Toronto	Platinum	seeker03@gmail.com	oct18 2021	User01
2	Member06	job seeker/member	124 hunter blvd., Toronto	Platinum	seeker05@gmail.com	oct20 2021	User02
3	Member07	job seeker/member	225 high park street, Toronto	Gold	seeker02@gmail.com	oct18 2021	User03
4	Member07	job seeker	5000 hiking road, Toronto	n/a	seeker06@gmail.com	oct21 2021	User07
5	Member01	job seeker	123 park street, Toronto	n/a	seeker01@gmail.com	oct18 2021	User07
6	Member05	job seeker	555 lockdown street, Toronto	n/a	seeker04@gmail.com	oct19 2021	User08

ryerson.sql Welcome Page ryerson

Worksheet Query Builder

```
SELECT *
from jb_members
where member_name NOT IN (select jb_user_id from qualifications);
```

Script Output x Query Result x

SQL | All Rows Fetched: 6 in 0.024 seconds

MEMBER_ID	MEMBER_TYPE	ADDRESS	ORG_ID	EMAIL	DATE_CREATED	MEMBER_NAME
1 Member12	Organization	HR memeber 2233 xyzxyz road, Toronto	Platinum	hr-manager06@gmail.com	oct23 2021	User06
2 Member09	Organization	HR memeber 987 hospital road, Toronto	Platinum	hr-manager03@gmail.com	oct23 2021	User010
3 Member10	Organization	HR memeber 321 anystreet road, Toronto	Platinum	hr-manager04@gmail.com	oct23 2021	User11
4 Member08	Organization	HR memeber 6600 mississauga road, Mississauga, ON L0A L0A Gold		hr-manager02@gmail.com	oct22 2021	User05
5 Member11	Organization	HR memeber 852 anyroad road, Toronto	Silver	hr-manager05@gmail.com	oct23 2021	User12
6 Member03	Organization	HR memeber 1122 Young street, Toronto	Silver	hr-manager01@gmail.com	oct18 2021	User04

Screen Shots:

1. JB_Users Table Views and Queries.

Welcome Page ryerson

Worksheet Query Builder

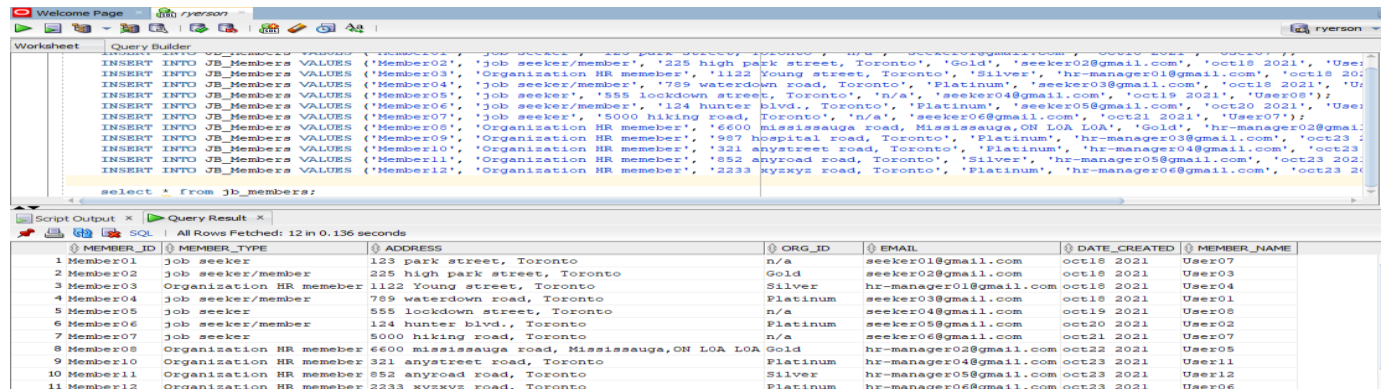
```
INSERT INTO JB_Users VALUES ('User01','Madhi-123');
INSERT INTO JB_Users VALUES ('User02','Ankit-123');
INSERT INTO JB_Users VALUES ('User03','Tusaif-123');
INSERT INTO JB_Users VALUES ('User04','Org01-123');
INSERT INTO JB_Users VALUES ('User05','Org02-123');
INSERT INTO JB_Users VALUES ('User06','Org03-123');
INSERT INTO JB_Users VALUES ('User07','Seeker01-123');
INSERT INTO JB_Users VALUES ('User08','Seeker02-123');
```

Script Output x Query Result x

SQL | All Rows Fetched: 9 in 0.514 seconds

LOGIN_ID	USER_PASSWORD
1 User01	Madhi-123
2 User02	Ankit-123
3 User03	Tusaif-123
4 User04	Org01-123
5 User05	Org02-123
6 User06	Org03-123
7 User07	Seeker01-123
8 User08	Seeker02-123
9 User09	Seeker03-123

2. JB_Members Table Views and Queries.



Query Builder

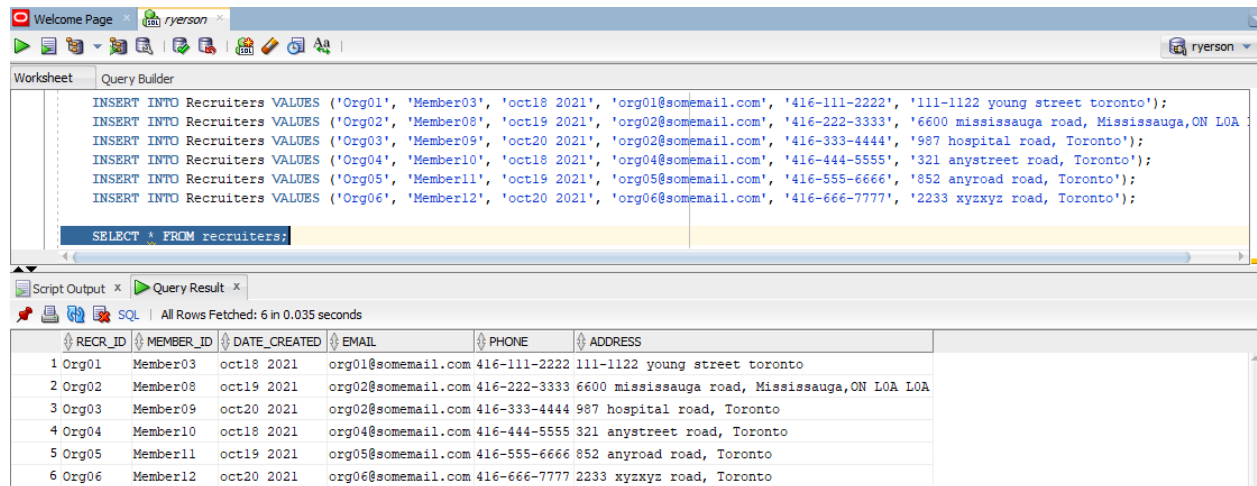
```
INSERT INTO JB_Members VALUES ('Member01', 'job seeker', '123 park street, Toronto', 'n/a', 'seeker01@gmail.com', 'oct18 2021', 'User01');
INSERT INTO JB_Members VALUES ('Member02', 'job seeker/member', '225 high park street, Toronto', 'Gold', 'seeker02@gmail.com', 'oct18 2021', 'User02');
INSERT INTO JB_Members VALUES ('Member03', 'Organization HR member', '1122 Young street, Toronto', 'Silver', 'hr-manager01@gmail.com', 'oct18 2021', 'User03');
INSERT INTO JB_Members VALUES ('Member04', 'job seeker/member', '789 waterdown road, Toronto', 'Platinum', 'seeker03@gmail.com', 'oct18 2021', 'User04');
INSERT INTO JB_Members VALUES ('Member05', 'job seeker', '555 lockdown street, Toronto', 'n/a', 'seeker04@gmail.com', 'oct19 2021', 'User05');
INSERT INTO JB_Members VALUES ('Member06', 'job seeker/member', '124 hunter blvd., Toronto', 'Platinum', 'seeker05@gmail.com', 'oct20 2021', 'User06');
INSERT INTO JB_Members VALUES ('Member07', 'job seeker', '5000 hiking road, Toronto', 'n/a', 'seeker06@gmail.com', 'oct21 2021', 'User07');
INSERT INTO JB_Members VALUES ('Member08', 'Organization HR member', '6600 mississauga road, Mississauga, ON L0A L0A', 'Gold', 'hr-manager02@gmail.com', 'oct22 2021', 'User08');
INSERT INTO JB_Members VALUES ('Member09', 'Organization HR member', '987 hospital road, Toronto', 'Platinum', 'hr-manager03@gmail.com', 'oct23 2021', 'User09');
INSERT INTO JB_Members VALUES ('Member10', 'Organization HR member', '321 anystreet road, Toronto', 'Platinum', 'hr-manager04@gmail.com', 'oct23 2021', 'User10');
INSERT INTO JB_Members VALUES ('Member11', 'Organization HR member', '852 anyroad road, Toronto', 'Silver', 'hr-manager05@gmail.com', 'oct23 2021', 'User11');
INSERT INTO JB_Members VALUES ('Member12', 'Organization HR member', '2233 xyzxyz road, Toronto', 'Platinum', 'hr-manager06@gmail.com', 'oct23 2021', 'User12');
```

select * from jb_members;

Script Output x Query Result x All Rows Fetched: 12 in 0.136 seconds

MEMBER_ID	MEMBER_TYPE	ADDRESS	ORG_ID	EMAIL	DATE_CREATED	MEMBER_NAME
1 Member01	job seeker	123 park street, Toronto	n/a	seeker01@gmail.com	oct18 2021	User01
2 Member02	job seeker/member	225 high park street, Toronto	Gold	seeker02@gmail.com	oct18 2021	User02
3 Member03	Organization HR member	1122 Young street, Toronto	Silver	hr-manager01@gmail.com	oct18 2021	User03
4 Member04	job seeker/member	789 waterdown road, Toronto	Platinum	seeker03@gmail.com	oct18 2021	User04
5 Member05	job seeker	555 lockdown street, Toronto	n/a	seeker04@gmail.com	oct19 2021	User05
6 Member06	job seeker/member	124 hunter blvd., Toronto	Platinum	seeker05@gmail.com	oct20 2021	User06
7 Member07	job seeker	5000 hiking road, Toronto	n/a	seeker06@gmail.com	oct21 2021	User07
8 Member08	Organization HR member	6600 mississauga road, Mississauga, ON L0A L0A	Gold	hr-manager02@gmail.com	oct22 2021	User08
9 Member09	Organization HR member	987 hospital road, Toronto	Platinum	hr-manager03@gmail.com	oct23 2021	User09
10 Member10	Organization HR member	321 anystreet road, Toronto	Platinum	hr-manager04@gmail.com	oct23 2021	User10
11 Member11	Organization HR member	852 anyroad road, Toronto	Silver	hr-manager05@gmail.com	oct23 2021	User11
12 Member12	Organization HR member	2233 xyzxyz road, Toronto	Platinum	hr-manager06@gmail.com	oct23 2021	User12

3. JB_Members Table Views and Queries.



Query Builder

```
INSERT INTO Recruiters VALUES ('Org01', 'Member03', 'oct18 2021', 'org01@somemail.com', '416-111-2222', '111-1122 young street toronto');
INSERT INTO Recruiters VALUES ('Org02', 'Member08', 'oct19 2021', 'org02@somemail.com', '416-222-3333', '6600 mississauga road, Mississauga, ON L0A L0A');
INSERT INTO Recruiters VALUES ('Org03', 'Member09', 'oct20 2021', 'org02@somemail.com', '416-333-4444', '987 hospital road, Toronto');
INSERT INTO Recruiters VALUES ('Org04', 'Member10', 'oct18 2021', 'org04@somemail.com', '416-444-5555', '321 anystreet road, Toronto');
INSERT INTO Recruiters VALUES ('Org05', 'Member11', 'oct19 2021', 'org05@somemail.com', '416-555-6666', '852 anyroad road, Toronto');
INSERT INTO Recruiters VALUES ('Org06', 'Member12', 'oct20 2021', 'org06@somemail.com', '416-666-7777', '2233 xyzxyz road, Toronto');
```

SELECT * FROM recruiters;

Script Output x Query Result x All Rows Fetched: 6 in 0.035 seconds

RECR_ID	MEMBER_ID	DATE_CREATED	EMAIL	PHONE	ADDRESS
1 Org01	Member03	oct18 2021	org01@somemail.com	416-111-2222	111-1122 young street toronto
2 Org02	Member08	oct19 2021	org02@somemail.com	416-222-3333	6600 mississauga road, Mississauga, ON L0A L0A
3 Org03	Member09	oct20 2021	org02@somemail.com	416-333-4444	987 hospital road, Toronto
4 Org04	Member10	oct18 2021	org04@somemail.com	416-444-5555	321 anystreet road, Toronto
5 Org05	Member11	oct19 2021	org05@somemail.com	416-555-6666	852 anyroad road, Toronto
6 Org06	Member12	oct20 2021	org06@somemail.com	416-666-7777	2233 xyzxyz road, Toronto

4. JB_Postings Table Views and Queries.

Welcome Page

ryerson

Worksheet

Query Builder

```
INSERT INTO JB_Postings VALUES ('job#18', 1, 'org00', 145000, 'Software Engineer', 'Downtown Toronto', 'In person', 'oct18 2021', 'dec18 2021');
INSERT INTO JB_Postings VALUES ('job#19', 1, 'org01', 15000, 'help desk agent', 'Downtown Toronto', 'remote', 'oct18 2021', 'dec18 2021');
INSERT INTO JB_Postings VALUES ('job#20', 1, 'org02', 25000, 'help desk agent', 'Downtown Toronto', 'In person', 'oct18 2021', 'dec18 2021');
INSERT INTO JB_Postings VALUES ('job#21', 1, 'org03', 30000, 'help desk agent', 'Downtown Toronto', 'In person', 'oct18 2021', 'dec18 2021');
INSERT INTO JB_Postings VALUES ('job#22', 1, 'org04', 28000, 'help desk agent', 'Downtown Toronto', 'remote', 'oct18 2021', 'dec18 2021');
INSERT INTO JB_Postings VALUES ('job#23', 1, 'org05', 32000, 'help desk agent', 'Downtown Toronto', 'In person', 'oct18 2021', 'dec18 2021');
INSERT INTO JB_Postings VALUES ('job#24', 1, 'org06', 42000, 'HR Staff', 'Downtown Toronto', 'remote', 'oct18 2021', 'dec18 2021');

SELECT * FROM JB_Postings;
```

Script Output

Query Result

SQL

All Rows Fetched: 24 in 0.133 seconds

	JOB_ID	WORK_PERIOD	COMPANY	SALARY	JOB_TITLE	JOB_LOCATION	JOB_TYPE	EFFECTIVE_DATE	END_DATE
1	job#01		1 org01	55000	Assistant Manager	Downtown Toronto	In person	oct18 2021	dec18 2021
2	job#02		1 org02	65000	HR Staff	Downtown Toronto	In person	oct18 2021	dec18 2021
3	job#03		1 org03	75000	Assistant HR Manager	Downtown Toronto	In person	oct18 2021	dec18 2021
4	job#04		1 org04	85000	General Manager	Downtown Toronto	In person	oct18 2021	dec18 2021
5	job#05		1 org05	95000	Data Base Developer	Downtown Toronto	remote	oct18 2021	dec18 2021
6	job#06		1 org06	100000	Data Base Developer	Downtown Toronto	remote	oct18 2021	dec18 2021
7	job#07		1 org01	35000	help desk agent	Downtown Toronto	remote	oct18 2021	dec18 2021
8	job#08		1 org02	45000	help desk agent	Downtown Toronto	remote	oct18 2021	dec18 2021
9	job#09		1 org03	125000	General Manager	Downtown Toronto	In person	oct18 2021	dec18 2021
10	job#10		1 org04	110000	Assistant Manager	Downtown Toronto	In person	oct18 2021	dec18 2021
11	job#11		1 org05	115000	Software Engineer	Downtown Toronto	remote	oct18 2021	dec18 2021
12	job#12		1 org06	100000	General Manager	Downtown Toronto	In person	oct18 2021	dec18 2021
13	job#13		1 org01	95000	Data Base Developer	Downtown Toronto	remote	oct18 2021	dec18 2021
14	job#14		1 org02	105000	Assistant Manager	Downtown Toronto	In person	oct18 2021	dec18 2021
15	job#15		1 org03	115000	help desk agent	Downtown Toronto	remote	oct18 2021	dec18 2021

5. Qualifications Table Views and Queries.

Welcome Page x ryerson x

Worksheet Query Builder

```

INSERT INTO Qualifications VALUES ('QID#03','Bachelors','User03',4,'CoverTitle3','G2');
INSERT INTO Qualifications VALUES ('QID#04','Undergraduate','User07',8,'CoverTitle4','G');
INSERT INTO Qualifications VALUES ('QID#05','Masters','User08',14,'CoverTitle5','Smart Serve');
INSERT INTO Qualifications VALUES ('QID#06','Bachelors','User09',5,'CoverTitle6','G2');

SELECT * FROM Qualifications;

SELECT * FROM Qualifications WHERE years_experience >= 5;

```

Script Output x Query Result x

SQL | All Rows Fetched: 6 in 0.039 seconds

	QUALIFICATION_ID	USER_DEGREE	JB_USER_ID	YEARS_EXPERIENCE	COVERLETTER	LICENSE
1	QID#01	Undergraduate	User01	3	CoverTitle	G
2	QID#02	Masters	User02	7	CoverTitle2	Smart Serve
3	QID#03	Bachelors	User03	4	CoverTitle3	G2
4	QID#04	Undergraduate	User07	8	CoverTitle4	G
5	QID#05	Masters	User08	14	CoverTitle5	Smart Serve
6	QID#06	Bachelors	User09	5	CoverTitle6	G2

Welcome Page x ryerson x

Worksheet Query Builder

```

INSERT INTO Qualifications VALUES ('QID#03','Bachelors','User03',4,'CoverTitle3','G2');
INSERT INTO Qualifications VALUES ('QID#04','Undergraduate','User07',8,'CoverTitle4','G');
INSERT INTO Qualifications VALUES ('QID#05','Masters','User08',14,'CoverTitle5','Smart Serve');
INSERT INTO Qualifications VALUES ('QID#06','Bachelors','User09',5,'CoverTitle6','G2');

SELECT * FROM Qualifications;

SELECT * FROM Qualifications WHERE years_experience >= 5;

```

Script Output x Query Result x

SQL | All Rows Fetched: 4 in 0.028 seconds

	QUALIFICATION_ID	USER_DEGREE	JB_USER_ID	YEARS_EXPERIENCE	COVERLETTER	LICENSE
1	QID#02	Masters	User02	7	CoverTitle2	Smart Serve
2	QID#04	Undergraduate	User07	8	CoverTitle4	G
3	QID#05	Masters	User08	14	CoverTitle5	Smart Serve
4	QID#06	Bachelors	User09	5	CoverTitle6	G2

6. Memberships Table Views and Queries.

Welcome Page x ryerson x

Worksheet Query Builder

```

INSERT INTO Memberships VALUES ('PID01', 'User01', 'Platinum', 'one year paid', 'oct18,2021', 'oct18,2022');
INSERT INTO Memberships VALUES ('PID02', 'User02', 'Platinum', 'one year paid', 'oct18,2021', 'oct18,2022');
INSERT INTO Memberships VALUES ('PID03', 'User03', 'Gold', 'one year paid', 'oct18,2021', 'oct18,2022');
INSERT INTO Memberships VALUES ('PID04', 'User04', 'Silver', 'one year paid', 'oct18,2021', 'oct18,2022');
INSERT INTO Memberships VALUES ('PID05', 'User05', 'Platinum', 'one year paid', 'oct18,2021', 'oct18,2022');
INSERT INTO Memberships VALUES ('PID06', 'User06', 'Platinum', 'one year paid', 'oct18,2021', 'oct18,2022');
INSERT INTO Memberships VALUES ('PID07', 'User10', 'Platinum', 'one year paid', 'oct18,2021', 'oct18,2022');
INSERT INTO Memberships VALUES ('PID08', 'User11', 'Gold', 'one year paid', 'oct18,2021', 'oct18,2022');
INSERT INTO Memberships VALUES ('PID09', 'User12', 'Silver', 'one year paid', 'oct18,2021', 'oct18,2022');

SELECT * FROM Memberships;

```

Script Output x Query Result x

SQL | All Rows Fetched: 9 in 0.054 seconds

PERMISSION_ID	USER_ID	TYPE	DESCRIPTION	START_DATE	END_DATE
1 PID01	User01	Platinum	one year paid	oct18,2021	oct18,2022
2 PID02	User02	Platinum	one year paid	oct18,2021	oct18,2022
3 PID03	User03	Gold	one year paid	oct18,2021	oct18,2022
4 PID04	User04	Silver	one year paid	oct18,2021	oct18,2022
5 PID05	User05	Platinum	one year paid	oct18,2021	oct18,2022
6 PID06	User06	Platinum	one year paid	oct18,2021	oct18,2022
7 PID07	User10	Platinum	one year paid	oct18,2021	oct18,2022
8 PID08	User11	Gold	one year paid	oct18,2021	oct18,2022
9 PID09	User12	Silver	one year paid	oct18,2021	oct18,2022

7. Connections Table Views and Queries.

Welcome Page x ryerson x

Worksheet Query Builder

```

INSERT INTO Connections VALUES ('ConId01', 'Member02', 'Oct18,2021', 'REFERENCES');
INSERT INTO Connections VALUES ('ConId02', 'Member04', 'Oct18,2021', 'REFERENCES');
INSERT INTO Connections VALUES ('ConId03', 'Member06', 'Oct18,2021', 'REFERENCES');
INSERT INTO Connections VALUES ('ConId04', 'Member02', 'Oct18,2021', 'REFERENCES');

SELECT * FROM Connections;

```

Script Output x Query Result x

SQL | All Rows Fetched: 4 in 0.043 seconds

CONN_ID	MEMBER_ID	DATE_MADE	DETAILS
1 ConId01	Member02	Oct18,2021	REFERENCES
2 ConId02	Member04	Oct18,2021	REFERENCES
3 ConId03	Member06	Oct18,2021	REFERENCES
4 ConId04	Member02	Oct18,2021	REFERENCES

8. HR_Department Table Views and Queries.

Worksheet Query Builder

```
INSERT INTO HR_Department VALUES ('Admin14','Org02','Accounting and Finance','name abc02',20);
INSERT INTO HR_Department VALUES ('Admin15','Org03','Accounting and Finance','name abc03',20);
INSERT INTO HR_Department VALUES ('Admin16','Org04','Accounting and Finance','name abc04',20);
INSERT INTO HR_Department VALUES ('Admin17','Org05','Accounting and Finance','name abc05',20);
INSERT INTO HR_Department VALUES ('Admin18','Org06','Accounting and Finance','name abc06',20);

SELECT * FROM HR_Department;
```

Script Output x Query Result x

SQL | All Rows Fetched: 18 in 0.041 seconds

	DEPART_ID	ORGANIZATION_ID	DEPART_NAME	HR_MANAGER	NO_EMPLOYEES
1	Admin01	Org01	HR	Mahdi	20
2	Admin02	Org02	HR	Ankit	20
3	Admin03	Org03	HR	Tusaif	20
4	Admin04	Org04	HR	name one	20
5	Admin05	Org05	HR	name two	20
6	Admin06	Org06	HR	name three	20
7	Admin07	Org01	Administration	name04	20
8	Admin08	Org02	Administration	name05	20
9	Admin09	Org03	Administration	name06	20
10	Admin10	Org04	Administration	name07	20
11	Admin11	Org05	Administration	name08	20
12	Admin12	Org06	Administration	name09	20
13	Admin13	Org01	Accounting and Finance	name abc01	20
14	Admin14	Org02	Accounting and Finance	name abc02	20
15	Admin15	Org03	Accounting and Finance	name abc03	20
16	Admin16	Org04	Accounting and Finance	name abc04	20
17	Admin17	Org05	Accounting and Finance	name abc05	20