**Assignment 3- Relational Databases- Griffith College Cork**

***By using database: Estate-Agent write the sql query for each question and paste the result for each query.***

1. Find the staff member who looks after property in Glasgow.

SELECT DISTINCT p.staffno, s.fname, s.lname

-> FROM PropertyforRent AS p RIGHT JOIN Staff AS s ON p.staffno = s.staffno

-> WHERE city = 'Glasgow'

-> ORDER BY s.staffno;

+---------+-------+-------+

| staffno | fname | lname |

+---------+-------+-------+

| SG14 | David | Ford |

| SG37 | Ann | Beech |

+---------+-------+-------+

2 rows in set (0.00 sec)

1. Find the property viewed by Mary Tregear.

SELECT v.clientno, c.fname, c.lname, v.propertyno

-> FROM Client AS c RIGHT JOIN Viewing AS v ON c.clientno = v.clientno

-> WHERE c.fname = 'Mary' AND c.lname = 'Tregear'

-> ORDER BY v.clientno;

+----------+-------+---------+------------+

| clientno | fname | lname | propertyno |

+----------+-------+---------+------------+

| CR62 | Mary | Tregear | PA14 |

+----------+-------+---------+------------+

1 row in set (0.03 sec)

1. Find the owner of property in Glasgow that are houses.

SELECT o.ownerno, o.fname, o.lname, p.city, p.type

-> FROM PropertyforRent AS p RIGHT JOIN PrivateOwner AS o ON p.ownerno = o.ownerno

-> WHERE p.city = 'Glasgow' AND type = 'house'

-> ORDER BY o.ownerno;

+---------+-------+---------+---------+-------+

| ownerno | fname | lname | city | type |

+---------+-------+---------+---------+-------+

| CO87 | Carol | Farrell | Glasgow | House |

+---------+-------+---------+---------+-------+

1 row in set (0.07 sec)

1. Find the Client who viewed a property in Aberdeen.

SELECT c.clientno, c.fname, c.lname, p.propertyno

-> FROM Viewing AS v RIGHT JOIN Client AS c ON v.clientno = c.clientno

-> RIGHT JOIN PropertyforRent AS p ON v.propertyno = p.propertyno

-> WHERE city = 'Aberdeen'

-> ORDER BY c.clientno;

+----------+-------+---------+------------+

| clientno | fname | lname | propertyno |

+----------+-------+---------+------------+

| CR56 | Aline | Stewart | PA14 |

| CR62 | Mary | Tregear | PA14 |

+----------+-------+---------+------------+

2 rows in set (0.06 sec)

1. Find the Client who viewed a property in Aberdeen that is managed by the Branch located in Glasgow.

SELECT v.propertyno, v.clientno, p.branchno, b.city

-> FROM PropertyforRent AS p JOIN Viewing AS v ON v.propertyno = p.propertyno

-> JOIN Branch AS b ON p.branchno = b.branchno

-> WHERE p.city = 'Aberdeen' AND b.city = 'Glasgow'

-> ORDER BY p.propertyno;

Empty set (0.06 sec)

1. Find the staff member who looks after property in Glasgow or London

SELECT s.staffno, p.city

-> FROM Staff AS s JOIN PropertyforRent AS p ON s.staffno = p.staffno

-> WHERE p.city = 'Glasgow' OR p.city = 'London'

-> ORDER BY s.staffno;

+---------+---------+

| staffno | city |

+---------+---------+

| SG14 | Glasgow |

| SG37 | Glasgow |

| SG37 | Glasgow |

| SL41 | London |

+---------+---------+

4 rows in set (0.00 sec)

1. Find the property viewed by Mary Tregear, John Kay and Aline Stewart in May.

SELECT v.clientno, c.fname, c.lname, v.viewDate, v.propertyno

-> FROM Client AS c RIGHT JOIN Viewing AS v ON c.clientno = v.clientno

-> WHERE v.viewDate like '%2001-05%' AND NOT c.fname = 'Mike'

-> ORDER BY c.clientno;

+----------+-------+---------+------------+------------+

| clientno | fname | lname | viewDate | propertyno |

+----------+-------+---------+------------+------------+

| CR56 | Aline | Stewart | 2001-05-24 | PA14 |

| CR56 | Aline | Stewart | 2001-05-26 | PG4 |

| CR62 | Mary | Tregear | 2001-05-14 | PA14 |

+----------+-------+---------+------------+------------+

3 rows in set (0.00 sec)

1. Find the owner of properties in Glasgow that are houses with more than 5 rooms available to rent.

SELECT o.ownerno, p.propertyno, p.city, p.type, p.rooms

-> FROM PrivateOwner AS o RIGHT JOIN PropertyforRent AS p ON o.ownerno = p.ownerno

-> WHERE p.city = 'Glasgow' AND p.type = 'house' AND p.rooms < 5

-> ORDER BY p.propertyno;

Empty set (0.00 sec)

1. Find the details of the branch that has had property viewed in May.

SELECT v.propertyno, v.viewdate, p.branchno, b.street, b.city, b.postcode

-> FROM PropertyforRent AS p RIGHT JOIN Viewing AS v ON v.propertyno = p.propertyno

-> RIGHT JOIN Branch AS b ON p.branchno = b.branchno

-> WHERE v.viewDate like '%2001-05%'

-> ORDER BY b.branchno;

+------------+------------+----------+--------------+----------+----------+

| propertyno | viewdate | branchno | street | city | postcode |

+------------+------------+----------+--------------+----------+----------+

| PG4 | 2001-05-26 | B003 | 163 Main St | Glasgow | G11 9QX |

| PA14 | 2001-05-24 | B007 | 16 Argyll St | Aberdeen | AB2 3SU |

| PA14 | 2001-05-14 | B007 | 16 Argyll St | Aberdeen | AB2 3SU |

+------------+------------+----------+--------------+----------+----------+

3 rows in set (0.00 sec)

1. Find the details of the branch that has staff members of who look after flats.

SELECT DISTINCT b.branchno, b.street, b.city, b.postcode

-> FROM PropertyforRent AS p RIGHT JOIN Staff AS s ON p.staffno = s.staffno

-> RIGHT JOIN Branch AS b ON b.branchno = p.branchno

-> WHERE p.type = 'flat'

-> ORDER BY b.branchno;

+----------+-------------+---------+----------+

| branchno | street | city | postcode |

+----------+-------------+---------+----------+

| B003 | 163 Main St | Glasgow | G11 9QX |

| B005 | 22 Deer Rd | London | SW1 4EH |

+----------+-------------+---------+----------+

2 rows in set (0.00 sec)

1. Find the property that has been viewed by clients that has no staff member assigned to manage it.

SELECT DISTINCT p.propertyno, p.street, p.city, p.postcode

-> FROM PropertyforRent AS p LEFT JOIN Viewing AS v ON p.propertyno = v.propertyno

-> WHERE p.staffno IS null

-> ORDER BY p.propertyno;

+------------+---------------+---------+----------+

| propertyno | street | city | postcode |

+------------+---------------+---------+----------+

| PG4 | 6 Lawrence St | Glasgow | G11 9QX |

+------------+---------------+---------+----------+

1 row in set (0.00 sec)

1. What client looked at property owned by Joe Keogh.

SELECT c.clientno, c.fname, c.lname

-> FROM PropertyforRent AS p RIGHT JOIN Viewing AS v ON P.propertyno = v.propertyno

-> RIGHT JOIN PrivateOwner AS o ON o.ownerno = p.ownerno

-> RIGHT JOIN Client AS c ON v.clientno = c.clientno

-> WHERE o.fname = 'Joe' AND o.lname = 'Keogh'

-> ORDER BY clientno;

+----------+-------+---------+

| clientno | fname | lname |

+----------+-------+---------+

| CR56 | Aline | Stewart |

| CR62 | Mary | Tregear |

+----------+-------+---------+

2 rows in set (0.01 sec)

1. What staff member looks after property viewed in May and the branch is located on a street with the name ‘Argyll’ .

SELECT s.staffno, s.fname, s.lname

-> FROM PropertyforRent AS p RIGHT JOIN Viewing AS v ON v.propertyno = p.propertyno

-> RIGHT JOIN Staff AS s ON p.staffno = s.staffno

-> WHERE v.viewDate like '%2001-05%' AND p.street like '%Argyll%'

-> ORDER BY s.staffno;

Empty set (0.00 sec)

1. What Owner has property managed by branches in London.

SELECT o.ownerno, o.fname, o.lname

-> FROM PropertyforRent AS p RIGHT JOIN Branch AS b ON b.branchno = p.branchno

-> RIGHT JOIN PrivateOwner AS o ON o.ownerno = p.ownerno

-> WHERE b.city = 'London'

-> ORDER BY o.ownerno;

+---------+-------+---------+

| ownerno | fname | lname |

+---------+-------+---------+

| CO87 | Carol | Farrell |

+---------+-------+---------+

1 row in set (0.00 sec)