

SQL PROJECT

DATABASE: Data_Analytics_BatchB

TABLES: Owner, Property, GG_Employee, Service

1. Show all owner information

```
71
72 • SELECT * FROM owner;
73
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	OwnerID	OwnerName	OwnerEmail	OwnerType
▶	1	Mary Jones	Mary.Jones@somewhere.com	Individual
	2	DT Enterprises	DTE@dte.com	Corporation
	3	Sam Douglas	NULL	Individual
	4	UNY Enterprises	UNYE@unye.com	Corporation
	5	Doug Samuels	Doug.Samuels@somewhere.com	Individual
	6	Mary Jones	Mary.Jones@somewhere.com	Individual
	7	DT Enterprises	DTE@dte.com	Corporation
	8	Sam Douglas	NULL	Individual
	9	UNY Enterprises	UNYE@unye.com	Corporation
	10	Doug Samuels	Doug.Samuels@somewhere.com	Individual
*	NULL	NULL	NULL	NULL

2. Show all OwnerName and OwnerEmail

```
122 • SELECT OwnerName, OwnerEmail
123 FROM owner
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	OwnerName	OwnerEmail
▶	Mary Jones	Mary.Jones@somewhere.com
	DT Enterprises	DTE@dte.com
	Sam Douglas	NULL
	UNY Enterprises	UNYE@unye.com
	Doug Samuels	Doug.Samuels@somewhere.com
	Mary Jones	Mary.Jones@somewhere.com
	DT Enterprises	DTE@dte.com
	Sam Douglas	NULL
	UNY Enterprises	UNYE@unye.com
	Doug Samuels	Doug.Samuels@somewhere.com

owner 9 x

3. Show all OwnerName and OwnerEmail which OwnerType is 'Corporation'.

```
125 SELECT OwnerName, OwnerEmail
126 FROM Owner
127 WHERE OwnerType LIKE 'Corporation';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	OwnerName	OwnerEmail
▶	DT Enterprises	DTE@dte.com
	UNY Enterprises	UNYE@unye.com
	DT Enterprises	DTE@dte.com
	UNY Enterprises	UNYE@unye.com

4. Show PropertyID and ServiceDate for all services have HoursWorked more than 4.

```
129 SELECT PropertyID, ServiceDate
130 FROM Service
131 WHERE HoursWorked > 4;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	PropertyID	ServiceDate
▶	1	2012-05-05 00:00:00
	3	2012-05-08 00:00:00
	5	2012-05-12 00:00:00

5. Show PropertyID and ServiceDate for all services have HoursWorked between 4 and 6

```
129 SELECT PropertyID, ServiceDate
130 FROM Service
131 WHERE HoursWorked BETWEEN 4 AND 6;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	PropertyID	ServiceDate
▶	1	2012-05-05 00:00:00
	3	2012-05-08 00:00:00

6. Count how many services have HoursWorked more than 4

```
133 • SELECT COUNT(*)
134 FROM service
135 WHERE HoursWorked > 4;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
COUNT(*)			
3			

7. Count how many distinct ExperienceLevel in EMPLOYEE table.

```
139 • SELECT COUNT(DISTINCT ExperienceLevel) AS DistinctExperienceLevels
140 FROM GG_Employee;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
DistinctExperienceLevels			
3			

8. Show all employees with CellPhone containing '254' and the ExperienceLevel is Senior.

```
142 • SELECT *
143 FROM GG_Employee
144 WHERE CellPhone LIKE '%254%' AND ExperienceLevel = 'Senior';
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
2	Evanston	John	206-254-2345	Senior
5	Fontaine	Joan	206-254-4567	Senior
7	Evanston	John	206-254-2345	Senior
10	Fontaine	Joan	206-254-4567	Senior
NULL	NULL	NULL	NULL	NULL

9. Show all properties not in city 'Seattle' or 'Bellevue'.

146 • SELECT *
147 FROM Property
148 WHERE City NOT IN ('Seattle', 'Bellevue');

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content: [IA](#)

	PropertyID	PropertyName	Street	City	State	ZIP	OwnerID
▶	2	Elm St Apts	4 East Elm	Lynwood	WA	98223	1
	4	Lake View Apts	1265 32nd Avenue	Redmond	WA	98052	3
	5	Kodak Heights Apts	65 32nd Avenue	Rochester	NY	14604	4
	8	Private Residence	567 151st St	Rochester	NY	14604	5
	10	Elm St Apts	4 East Elm	Lynwood	WA	98223	1
	12	Lake View Apts	1265 32nd Avenue	Redmond	WA	98052	3
	13	Kodak Heights Apts	65 32nd Avenue	Rochester	NY	14604	4
	16	Private Residence	567 151st St	Rochester	NY	14604	5
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL

10. Show all properties with PropertyName begins with 'P', but the location is not in NY State.

```

50 • SELECT *
51 FROM Property
52 WHERE PropertyName LIKE 'P%' AND City NOT LIKE 'NewYork';

```

PropertyID	PropertyName	Street	City	State	ZIP	OwnerID
6	Private Residence	1456 48th St	Bellevue	WA	98007	1
7	Private Residence	1567 51st St	Bellevue	WA	98007	3
8	Private Residence	567 151st St	Rochester	NY	14604	5
14	Private Residence	1456 48th St	Bellevue	WA	98007	1
15	Private Residence	1567 51st St	Bellevue	WA	98007	3
16	Private Residence	567 151st St	Rochester	NY	14604	5
NULL	NULL	NULL	NULL	NULL	NULL	NULL

11. Show all the services in descending order of their HoursWorked

```

154 • SELECT *
155 FROM service
156 ORDER BY HoursWorked DESC;

```

PropertyID	EmployeeID	ServiceDate	HoursWorked
5	4	2012-05-12 00:00:00	7.50
1	1	2012-05-05 00:00:00	4.50
3	3	2012-05-08 00:00:00	4.50
4	1	2012-05-19 00:00:00	3.00
2	2	2012-05-08 00:00:00	2.75
8	4	2012-05-15 00:00:00	2.75
6	5	2012-05-10 00:00:00	2.50
7	2	2012-05-19 00:00:00	2.50
NULL	NULL	NULL	NULL

12. Show all the services which HoursWorked is greater than 3 in ascending order of their ServiceDate.

```

158 • SELECT *
159 FROM service
160 WHERE HoursWorked > 3
161 ORDER BY ServiceDate ASC;

```

PropertyID	EmployeeID	ServiceDate	HoursWorked
1	1	2012-05-05 00:00:00	4.50
3	3	2012-05-08 00:00:00	4.50
5	4	2012-05-12 00:00:00	7.50
NULL	NULL	NULL	NULL

13. Show all owners with Email as NULL

```

163 • SELECT *
164 FROM owner
165 WHERE OwnerEmail IS NULL;

```

OwnerID	OwnerName	OwnerEmail	OwnerType
3	Sam Douglas	NULL	Individual
8	Sam Douglas	NULL	Individual
NULL	NULL	NULL	NULL

14. Count how many Owners whose Email is not NUL

```
167 • SELECT COUNT(*)
168 FROM owner
169 WHERE OwnerEmail IS NOT NULL;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	COUNT(*)			
▶	8			

15. Show the sum of Hours Worked in SERVICE.

```
171 • SELECT SUM(HoursWorked) AS TotalHoursWorked
172 FROM Service;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	TotalHoursWorked			
▶	30.00			

16. Show Only show the employee with sum of Hours Worked more than 7

```
174 • SELECT EmployeeID, SUM(HoursWorked) AS HoursWorked
175 FROM Service
176 GROUP BY EmployeeID
177 HAVING SUM(HoursWorked) > 7;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	EmployeeID	HoursWorked		
▶	1	7.50		
	4	10.25		

17. Show the names of employees who have worked on a property owned by a corporation

```
180 • SELECT * FROM GG_Employee;
181 • SELECT * FROM Property;
182 • SELECT * FROM Owner;
183 • SELECT * FROM Service;
184
185 • SELECT DISTINCT LastName, FirstName
186 FROM GG_Employee
187 JOIN Service ON GG_Employee.EmployeeID = Service.EmployeeID
188 JOIN Property ON Service.PropertyID = Property.PropertyID
189 JOIN Owner ON Property.OwnerID = Owner.OwnerID
190 WHERE Owner.OwnerType = 'Corporation';
191
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	LastName	FirstName		
▶	Smith	Sam		
	Murray	Dale		
	Murphy	Jerry		

18. Show the names of employees who have worked on a property in New York

```
192 • SELECT DISTINCT LastName, FirstName
193 FROM GG_Employee
194 JOIN Service ON GG_Employee.EmployeeID = Service.EmployeeID
195 JOIN Property ON Service.PropertyID = Property.PropertyID
196 WHERE Property.State LIKE 'NY';
197
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	LastName	FirstName
▶	Murphy	Jerry

19. Sort the employees' information in ascending order by the total hours of their service.

```
198
199 • SELECT GG_Employee.EmployeeID, GG_Employee.LastName, GG_Employee.FirstName, SUM(Service.HoursWorked) AS HoursWorked
200 FROM GG_Employee
201 JOIN Service ON GG_Employee.EmployeeID = Service.EmployeeID
202 GROUP BY GG_Employee.EmployeeID, GG_Employee.LastName, GG_Employee.FirstName
203 ORDER BY HoursWorked ASC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	EmployeeID	LastName	FirstName	HoursWorked
▶	5	Fontaine	Joan	2.50
	3	Murray	Dale	4.50
	2	Evanston	John	5.25
	1	Smith	Sam	7.50
	4	Murphy	Jerry	10.25

20. Show names and Email of owners who have the property named 'Private Residence'

```
205 • SELECT Owner.OwnerName, Owner.OwnerEmail
206 FROM Owner
207 JOIN Property ON Owner.OwnerID = Property.OwnerID
208 WHERE Property.PropertyName = 'Private Residence';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	OwnerName	OwnerEmail
▶	Mary Jones	Mary.Jones@somewhere.com
	Sam Douglas	NULL
	Doug Samuels	Doug.Samuels@somewhere.com
	Mary Jones	Mary.Jones@somewhere.com
	Sam Douglas	NULL
	Doug Samuels	Doug.Samuels@somewhere.com

21. Show the number of services on properties with owner's type as 'Corporation'.

```
210 • SELECT COUNT(*) AS NumberOfServices
211 FROM Service
212 JOIN Property ON Service.PropertyID = Property.PropertyID
213 JOIN Owner ON Property.OwnerID = Owner.OwnerID
214 WHERE Owner.OwnerType = 'Corporation';
```

< Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

NumberOfServices
3

22. Show the total hours of service on properties with owner type as 'Corporation'.

```
216 • SELECT SUM(Service.HoursWorked) AS TotalHoursWorked
217 FROM Service
218 JOIN Property ON Service.PropertyID = Property.PropertyID
219 JOIN Owner ON Property.OwnerID = Owner.OwnerID
220 WHERE Owner.OwnerType = 'Corporation';
```

< Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

TotalHoursWorked
16.50

23. Show the names of the employee who has worked most hours

```
222 • SELECT LastName, FirstName, Service.HoursWorked AS HoursWorked
223 FROM GG_Employee
224 JOIN Service ON GG_Employee.EmployeeID = Service.EmployeeID
225 GROUP BY GG_Employee.EmployeeID, GG_Employee.LastName, GG_Employee.FirstName, HoursWorked
226 ORDER BY SUM(Service.HoursWorked) DESC
227 LIMIT 3;
```

: Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

LastName	FirstName	HoursWorked
Murphy	Jerry	7.50
Smith	Sam	4.50
Murray	Dale	4.50