

Brian Bauman
CSC 453 HW 1 Q3

(1)

Worksheet Query Builder

```
--(1)
SELECT RentalCompany FROM ByCar WHERE Mileage >= 27;

--(2)
SELECT TID FROM Trips WHERE TravelMode = 'Train' AND Fare > 150;

--(3)
SELECT TID, Fare FROM Trips WHERE TripState = 'Non-US';

--(4)
SELECT TID FROM Trips NATURAL JOIN ByPlane WHERE Class = 'Business' AND Fare > 1000;
```

Script Output Query Result

SQL All Rows Fetched: 3 in 0.016 seconds

RENTALCOMPANY
1 Personal
2 Personal
3 Personal

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duration...
SELECT RentalCompany FROM ByCar WHERE Mileage >= 27;	CSC 453	23-SEP-...	SQL	1	0.016
File: /Users/brianbauman/Documents/DePaul/CSC 453/HW 1/L.sql	CSC 453	23-SEP-...	Script	52	0.015
File: /Users/brianbauman/Documents/DePaul/CSC 453/HW 1/L.sql	CSC 453	23-SEP-...	Script	7	0.007

(2)

SQL Worksheet History

Worksheet Query Builder

```
--(1)
SELECT RentalCompany FROM ByCar WHERE Mileage >= 27;

--(2)
SELECT TID FROM Trips WHERE TravelMode = 'Train' AND Fare > 150;

--(3)
SELECT TID, Fare FROM Trips WHERE TripState = 'Non-US';

--(4)
SELECT TID FROM Trips NATURAL JOIN ByPlane WHERE Class = 'Business' AND Fare > 1000;

--(5)
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A.Fare > B.Fare;
```

Script Output Query Result

SQL All Rows Fetched: 5 in 0.017 seconds

TID
1 4
2 6
3 10
4 12
5 24

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duration...
SELECT TID FROM Trips WHERE TravelMode = 'Train' AND Fare > 150;	CSC 453	23-SEP-...	SQL	1	0.017
File: /Users/brianbauman/Documents/DePaul/CSC 453/HW 1/L.sql	CSC 453	23-SEP-...	Script	55	0.029
SELECT RentalCompany FROM ByCar WHERE Mileage >= 27;	CSC 453	23-SEP-...	SQL	1	0.016

(3)

SCL Worksheet History

Worksheet Query Builder

```
--(3)
SELECT TID, Fare FROM Trips WHERE TripState = 'Non-US';

--(4)
SELECT TID FROM Trips NATURAL JOIN ByPlane WHERE Class = 'Business' AND Fare > 1000;
```

Script Output x Query Result x

SQL All Rows Fetched: 8 in 0.04 seconds

TID	Fare
1	3
2	7
3	10
4	13
5	12
6	14
7	17
8	22

SCL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
SELECT TID, Fare FROM Trips WHERE TripState = 'Non-US';	CSC 453	23-SEP-...	SQL	1	0.04
SELECT TID FROM Trips WHERE TravelMode = 'Train' AND Fare > 150;	CSC 453	23-SEP-...	SQL	1	0.017
file:///c:/Users/brianhau/Desktop/Default/CSC 453/HW 1/C.sql	CSC 453	23-SEP-...	Script	13	0.029

(4)

Worksheet Query Builder

```
--(4)
SELECT TID FROM Trips NATURAL JOIN ByPlane WHERE Class = 'Business' AND Fare > 1000;

--(5)
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A.Fare > B.Fare;
```

Script Output x Query Result x

SQL All Rows Fetched: 1 in 0.02 seconds

TID
1

SCL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
SELECT TID FROM Trips NATURAL JOIN ByPlane WHERE Class = 'Business' AND Fare > 1000;	CSC 453	23-SEP-...	SQL	1	0.02
SELECT TID, Fare FROM Trips WHERE TripState = 'Non-US';	CSC 453	23-SEP-...	SQL	1	0.04
SELECT TID FROM Trips WHERE TravelMode = 'Train' AND Fare > 150;	CSC 453	23-SEP-...	SQL	1	0.017

(5)

Worksheet: Query Builder

```
--(4)
SELECT TID FROM Trips NATURAL JOIN ByPlane WHERE Class = 'Business' AND Fare > 1000;
--(5)
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A.Fare > B.Fare;
```

Query Result: All Rows Fetched: 25 in 0.034 seconds

TID
1
2
3
4
5
6
7
8
9
10
11
12
13

SQL History

SQL	Connect...	TimeSt...	Type	Executed
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A...	CSC 453	23-SEP-...	SQL	6

Worksheet: Query Builder

```
--(4)
SELECT TID FROM Trips NATURAL JOIN ByPlane WHERE Class = 'Business' AND Fare > 1000;
--(5)
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A.Fare > B.Fare;
--(6)
```

Query Result: All Rows Fetched: 25 in 0.034 seconds

TID
11
14
15
16
17
18
19
20
21
22
23
24
25

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Over
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A...	CSC 453	23-SEP-...	SQL	6	0.01:

(6)

SQL Worksheet | History

Worksheet Query Builder

```
--(6)
SELECT A.TID, B.TID FROM ByCar A CROSS JOIN ByCar B WHERE B.Mileage = A.Mileage AND B.TID > A.TID;
--(7)
SELECT A.TID, B.TID FROM ByTrain A CROSS JOIN ByTrain B WHERE B.TrainSpeed <> A.TrainSpeed AND B.TID > A.TID;
--(8)
SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID;
--(9)
```

Script Output | Query Results

SQL | All Rows Fetched: 4 in 0.019 seconds

TID	TID_1
1	4
2	13
3	1
4	9

SQL History

SQL	Connect...	TimeSt...	Type
SELECT A.TID, B.TID FROM ByCar A CROSS JOIN ByCar B WHERE B.Mileage = A.Mileage AND B.TID > A.TID;	CSC 453	23-SEP...	SQL
SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID;	CSC 453	23-SEP...	SQL
File: /Users/brianosman/Documents/Default/CSC 453/HW 1/C.sql	CSC 453	23-SEP...	Script
SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID;	CSC 453	23-SEP...	SQL

(7)

Worksheet Query Builder

```
--(7)
SELECT A.TID, B.TID FROM ByTrain A CROSS JOIN ByTrain B WHERE B.TrainSpeed <> A.TrainSpeed AND B.TID > A.TID;
```

Script Output | Query Results

SQL | All Rows Fetched: 26 in 0.039 seconds

TID	TID_1
1	4
2	4
3	4
4	4
5	4
6	4
7	0
8	0
9	6
10	6
11	0
12	6
13	0
14	0

SQL History

SQL	Connect...	TimeSt...	Type
SELECT A.TID, B.TID FROM ByTrain A CROSS JOIN ByTrain B WHERE B.TrainSpeed <> A.TrainSpeed AND B.TID > A.TID;	CSC 453	23-SEP...	SQL
SELECT A.TID, B.TID FROM ByCar A CROSS JOIN ByCar B WHERE B.Mileage = A.Mileage AND B.TID > A.TID;	CSC 453	23-SEP...	SQL
File: /Users/brianosman/Documents/Default/CSC 453/HW 1/C.sql	CSC 453	23-SEP...	Script

Worksheet: Query Builder

SELECT A.TID, B.TID FROM ByTrain A CROSS JOIN ByTrain B WHERE B.TrainSpeed = A.TrainSpeed AND B.TID > A.TID;

Script Output: Query Results

SQL: All Rows Fetched: 26 in 0.015 seconds

	TID	TID_1
14	8	32
15	8	34
16	8	33
17	8	24
18	18	32
19	18	22
20	18	24
21	12	34
22	14	22
23	12	24
24	14	22
25	14	24
26	22	24

SQL History

SQL	Connect...	TimeSt...	Type
SELECT A.TID, B.TID FROM ByTrain A CROSS JOIN ByTrain B WHERE B.TrainSpeed = A.TrainSpeed AND B.TID > A.TID;	CSC 453	23-SEP-...	SQL
SELECT A.TID, B.TID FROM ByCar A CROSS JOIN ByCar B WHERE B.Mileage = A.Mileage AND B.TID > A.TID;	CSC 453	23-SEP-...	SQL
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A.Fare > B.Fare;	CSC 453	23-SEP-...	SQL
File: C:\Users\Prakashan\Documents\DePaul\CSC 453 HW 1 A.sql	CSC 453	23-SEP-...	Script

Worksheet: SQL AS A NAME FOR END

(8)

Worksheet: Query Builder

--TR
SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID;

Script Output Query Result
All Rows Fetched: 25 in 0.021 seconds

	TID	TID_1
1	5	7
2	5	31
3	1	31
4	16	32
5	16	34
6	12	34
7	1	35
8	1	36
9	15	36
10	5	37
11	1	37
12	11	37

SQL History

SQL

SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID; CSC 453 25-SEP-2019 SQL

SELECT A.TID, B.TID FROM ByTrain A CROSS JOIN ByTrain B WHERE B.TrainSpeed <= A.TrainSpeed AND B.TID > A.TID; CSC 452 22-SEP-2019 SQL

SELECT A.TID, B.TID FROM ByCar A CROSS JOIN ByCar B WHERE B.Mileage = A.Mileage AND B.TID > A.TID; CSC 453 23-SEP-2019 SQL

SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A.Fare > B.Fare; CSC 453 24-SEP-2019 SQL

Worksheet: Query Builder

--TR
SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID;

Script Output Query Result
All Rows Fetched: 26 in 0.021 seconds

	TID	TID_1
13	9	15
14	3	15
15	1	29
16	15	29
17	16	29
18	1	25
19	15	25
20	16	25
21	16	25
22	16	22
23	12	22
24	14	22

SQL History

SQL

SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID; CSC 453 21-SEP-2019 SQL

SELECT A.TID, B.TID FROM ByTrain A CROSS JOIN ByTrain B WHERE B.TrainSpeed <= A.TrainSpeed AND B.TID > A.TID; CSC 453 21-SEP-2019 SQL

SELECT A.TID, B.TID FROM ByCar A CROSS JOIN ByCar B WHERE B.Mileage = A.Mileage AND B.TID > A.TID; CSC 453 21-SEP-2019 SQL

SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND A.Fare > B.Fare; CSC 453 21-SEP-2019 SQL

15/DePaul/CSC 453/HW 11/Car

Worksheet: Query Builder

SQL

```
SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID;
```

Script Output x Query Result x

All Rows Fetched: 25 in 0.021 seconds

TID	TID
16	17
17	18
18	19
19	20
20	21
21	22
22	23
23	24
24	25
25	26

SQL History

Filter

SQL

```
SELECT A.TripState FROM Trips A CROSS JOIN Trips B CROSS JOIN Trips C WHERE A.TripState = B.TripState AND B.TripState = C.TripState AND A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND C.TravelMode = 'Plane';
```

Connect... TimeSt... Type

CSC 453 23-SEP-... SQL

CSC 453 23-SEP-... SQL

CSC 453 23-SEP-... SQL

CSC 453 23-SEP-... SQL

File: D:\Users\brinbaum\Documents\DePaul\CSC 453\HW 1\1.cel

(9)

Worksheet: Query Builder

SQL

```
SELECT A.TripState FROM Trips A CROSS JOIN Trips B CROSS JOIN Trips C WHERE A.TripState = B.TripState AND B.TripState = C.TripState AND A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND C.TravelMode = 'Plane';
```

Script Output x Query Result x

All Rows Fetched: 18 in 0.045 seconds

TRIPSTATE
1
2
3
4
5
6
7
8
9

SQL History

Filter

SQL

```
SELECT A.TripState FROM Trips A CROSS JOIN Trips B CROSS JOIN Trips C WHERE A.TripState = B.TripState AND B.TripState = C.TripState AND A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND C.TravelMode = 'Plane';
```

Connect... TimeSt... Type

CSC 453 23-SEP-... SQL

CSC 453 23-SEP-... SQL

CSC 453 23-SEP-... SQL

CSC 453 23-SEP-... SQL

CSC 453 23-SEP-... SQL

File: D:\Users\brinbaum\Documents\DePaul\CSC 453\HW 1\1.cel

(10a)

Worksheet Query Builder

```
--(8)--
SELECT A.TID, B.TID FROM bytrain A CROSS JOIN bytrain B WHERE B.TrainSpeed > A.TrainSpeed AND B.TID > A.TID;

--(9)--
SELECT A.TID, B.TID FROM trips A CROSS JOIN trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID;

--(10)--
SELECT A.TripState FROM Trips A CROSS JOIN Trips B CROSS JOIN Trips C WHERE A.TripState = B.TripState AND B.TripState = C.TripState
AND A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND C.TravelMode = 'Plane';

--(11)--
SELECT * FROM Trips WHERE Fare = (SELECT MAX(Fare) FROM Trips);

--(12)--
CSC 453 : SELECT * FROM Trips WHERE a.Fare = (SELECT MIN(Fare) FROM Trips);
```

Query Result 1 Query Result 2 Query Result 3 Query Result 4 Query Result 5

SQL All Rows Fetched: 1 in 0.145 seconds

TID	TRIPSTATE	TRAVELMODE	FARE
1	Train	Plane	500

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duration...
SELECT * FROM Trips WHERE Fare = (SELECT MAX(Fare) FROM Trips);	CSC 453	27-SEP-...	SQL	2	0.145
SELECT * FROM Trips WHERE Fare = (SELECT MIN(Fare) FROM Trips);	CSC 453	27-SEP-...	SQL	1	0.065
SELECT * FROM Trips A, Trips B WHERE a.Fare = (SELECT MAX(Fare) FROM Trips)	CSC 453	27-SEP-...	SQL	1	0.185
SELECT * FROM Trips WHERE Fare = (SELECT MAX(Fare) FROM Trips)	CSC 453	27-SEP-...	SQL	1	0.222
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMo...	CSC 453	27-SEP-...	SQL	6	0.014
SQL History	CSC 453	27-SEP-...	SQL	4	0.0

(10b)

Worksheet Query Builder

```
--(8)--
SELECT A.TID, B.TID FROM Trips A CROSS JOIN Trips B WHERE B.TripState = A.TripState AND B.TravelMode = A.TravelMode AND B.TID > A.TID;

--(9)--
SELECT A.TripState FROM Trips A CROSS JOIN Trips B CROSS JOIN Trips C WHERE A.TripState = B.TripState AND B.TripState = C.TripState
AND A.TravelMode = 'Car' AND B.TravelMode = 'Train' AND C.TravelMode = 'Plane';

--(10)--
SELECT * FROM Trips WHERE Fare = (SELECT MAX(Fare) FROM Trips);

--(11)--
SELECT * FROM Trips WHERE Fare = (SELECT MIN(Fare) FROM Trips);
```

Query Result 1 Query Result 2 Query Result 3 Query Result 4 Query Result 5 Query Result 6

SQL All Rows Fetched: 1 in 0.084 seconds

TID	TRIPSTATE	TRAVELMODE	FARE
1	Train	Train	11

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duration...
SELECT * FROM Trips WHERE Fare = (SELECT MIN(Fare) FROM Trips);	CSC 453	27-SEP-...	SQL	2	0.084
SELECT * FROM Trips WHERE Fare = (SELECT MAX(Fare) FROM Trips);	CSC 453	27-SEP-...	SQL	2	0.145
SELECT * FROM Trips A, Trips B WHERE a.Fare = (SELECT MAX(Fare) FROM Trips)	CSC 453	27-SEP-...	SQL	1	0.185
SELECT * FROM Trips WHERE Fare = (SELECT MAX(Fare) FROM Trips)	CSC 453	27-SEP-...	SQL	1	0.222
SELECT A.TID FROM Trips A CROSS JOIN Trips B WHERE A.TravelMode = 'Car' AND B.TravelMo...	CSC 453	27-SEP-...	SQL	6	0.014
SQL History	CSC 453	27-SEP-...	SQL	4	0.0