

SQL Worksheet History



csc453

Worksheet Query Builder

```
insert into Rating values( 101, 2001, 2, DATE '2011-01-22');
insert into Rating values( 101, 2001, 4, DATE '2011-01-27');
insert into Rating values( 106, 2002, 4, null);
insert into Rating values( 103, 2003, 2, DATE '2011-01-20');
insert into Rating values( 108, 2003, 4, DATE '2011-01-12');
insert into Rating values( 108, 2003, 2, DATE '2011-01-30');
insert into Rating values( 101, 2004, 3, DATE '2011-01-09');
insert into Rating values( 103, 2005, 3, DATE '2011-01-27');
insert into Rating values( 104, 2005, 2, DATE '2011-01-22');
insert into Rating values( 108, 2005, 4, null);
insert into Rating values( 107, 2006, 3, DATE '2011-01-15');
insert into Rating values( 106, 2006, 5, DATE '2011-01-19');
insert into Rating values( 107, 2007, 5, DATE '2011-01-20');
insert into Rating values( 104, 2008, 3, DATE '2011-01-02');

--Q1 Find the name of all restaurants offering Indian cuisine
select name from Restaurant where cuisine = 'Indian';

--Q2 Find restaurant names that received a rating of 4 or 5, sort them in increasing order
```

Script Output x Query Result x

SQL All Rows Fetched: 4 in 0.022 seconds

	NAME
1	India House Restaurant
2	Bombay Wraps
3	Rangoli
4	Cumin

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select name from Restaurant where cuisine = 'Indian';	csc453	07-OCT...	SQL	3	0.022
file:/Users/agnieszka/Documents/CSC/453_DarabaseTechnologies/Assignments/...	csc453	07-OCT...	Script	2	0.009
select name, max(stars) as Mstars from Restaurant R, Rating S where R.rID = S.rID ...	csc453	02-OCT...	SQL	2	0.025
Select AVC - AVI from (select avg(AvChStars) as AVC from (select name, avg(stars...	csc453	02-OCT...	SQL	1	0.047
Select AV1 - AV2 from (select avg(AvChStars) as AV1 from (select name, avg(stars...	csc453	02-OCT...	SQL	1	0.027

...qlC.sqlComputerStore.sqlAnswers.sqlZooDatabase.sqlPart-A.sqlRestaurants.sqlPart-B.sql

SQL WorksheetHistory

WorksheetQuery Builder

```
insert into Rating values( 104, 2008,3, DATE '2011-01-02');

--Q1 Find the name of all restaurants offering Indian cuisine
select name from Restaurant where cuisine = 'Indian';

--Q2 Find restaurant names that received a rating of 4 or 5, sort them in increasing order
select distinct name from
(select name, stars from Restaurant R, Rating S where R.rID = S.rID and (stars = 4 or stars = 5) order by stars);

--select name from
--(select name, avg(stars) as stars from Restaurant R, Rating S where R.rID = S.rID and (stars = 4 or stars = 5)
--group by name order by stars);

--Q3 Find the names of all restaurants that have no rating
select name from Restaurant minus
(select r.name from Restaurant R, Rating S where R.rID = S.rID);

--Q4 Some reviewers didn't provide a date with their rating. Find the names of all reviewers who have ratings with a NULL value for the date
select name from Reviewer V, Rating T where V.vID = T.vID and ratingDate is Null;
```

Script OutputQuery Result

SQLAll Rows Fetched: 4 in 0.029 seconds

	NAME
1	India House Restaurant
2	Jade Court
3	MingHin Cuisine
4	Shanghai Terrace

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select distinct name from (select name, stars from Restaurant R, Rating S where R....	csc453	07-OCT...	SQL	2	0.029
select name from Restaurant where cuisine = 'Indian';	csc453	07-OCT...	SQL	3	0.022
file:/Users/agnieszka/Documents/CSC/453_DarabaseTechnologies/Assignments/...	csc453	07-OCT...	Script	2	0.009
select name, max(stars) as Mstars from Restaurant R, Rating S where R.rID = S.rID ...	csc453	02-OCT...	SQL	2	0.025
Select AVC – AVI from (select avg(AvChStars) as AVC from (select name, avg(stars...	csc453	02-OCT...	SQL	1	0.047

mmmand key down to perform "Go to Declaration"Line 50 Column 114InsertUnix/Mac: LFG

...ql
C.sql
ComputerStore.sql
Answers.sql
ZooDatabase.sql
Part-A.sql
Restaurants.sql
Part-B.sql

SQL Worksheet
History

csc453

Worksheet
Query Builder

```

(select name, stars from Restaurant R, Rating S where R.rID = S.rID and (stars = 4 or stars = 5) order by stars);

--select name from
--(select name, avg(stars) as stars from Restaurant R, Rating S where R.rID = S.rID and (stars = 4 or stars = 5)
--group by name order by stars);

--Q3 Find the names of all restaurants that have no rating
select name from Restaurant minus
(select r.name from Restaurant R, Rating S where R.rID = S.rID);

--Q4 Some reviewers didn't provide a date with their rating. Find the names of all reviewers who have ratings with a NULL value for the date
select name from Reviewer V, Rating T where V.vID = T.vID and ratingDate is Null;

--Q5 For all cases where the same reviewer rated the same restaurant twice and gave it a higher rating the
--second time, return the reviewer's name and the name of the restaurant.
select R.name, V.name from Rating r1, Rating r2, Reviewer V, Restaurant R where r1.vID = V.vID and r1.rID = R.rID
and r1.vID = r2.vID and r1.rID = r2.rID and r1.ratingDate > r2.ratingDate and r1.stars > r2.stars;

--Q6 For each restaurant that has at least one rating, find the highest number of stars that a restaurant received.

```

Script Output
Query Result

SQL
All Rows Fetched: 2 in 0.022 seconds

	NAME
1	Bombay Wraps
2	Shanghai Inn

SQL History

Filter

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select name from Restaurant minus (select r.name from Restaurant R, Rating S whe...	csc453	07-OCT...	SQL	2	0.022
select distinct name from (select name, stars from Restaurant R, Rating S where R....	csc453	07-OCT...	SQL	2	0.029
select name from Restaurant where cuisine = 'Indian';	csc453	07-OCT...	SQL	3	0.022
file:/Users/agnieszka/Documents/CSC/453_DarabaseTechnologies/Assignments/...	csc453	07-OCT...	Script	2	0.009
select name, max(stars) as Mstars from Restaurant R, Rating S where R.rID = S.rID ...	csc453	02-OCT...	SQL	2	0.025

ommand key down to perform "Go to Declaration"
Line 58 Column 65
Insert
Unix/Mac: LF

...ql
C.sql
ComputerStore.sql
Answers.sql
ZooDatabase.sql
Part-A.sql
Restaurants.sql
Part-B.sql

SQL Worksheet
History

csc453

Worksheet
Query Builder

```

--Q1 Find the name of all restaurants offering Indian cuisine
select name from Restaurant where cuisine = 'Indian';

--Q2 Find restaurant names that received a rating of 4 or 5, sort them in increasing order
select distinct name from
(select name, stars from Restaurant R, Rating S where R.rID = S.rID and (stars = 4 or stars = 5) order by stars);

--select name from
--(select name, avg(stars) as stars from Restaurant R, Rating S where R.rID = S.rID and (stars = 4 or stars = 5)
--group by name order by stars);

--Q3 Find the names of all restaurants that have no rating
select name from Restaurant minus
(select r.name from Restaurant R, Rating S where R.rID = S.rID);

--Q4 Some reviewers didn't provide a date with their rating. Find the names of all reviewers who have ratings with a NULL value for the date
select name from Reviewer V, Rating T where V.vID = T.vID and ratingDate is Null;

--Q5 For all cases where the same reviewer rated the same restaurant twice and gave it a higher rating the

```

Script Output
Query Result

SQL | All Rows Fetched: 2 in 0.021 seconds

	NAME
1	Daniel L.
2	Suikey S.

SQL History

Filter

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select name from Reviewer V, Rating T where V.vID = T.vID and ratingDate is Null;	csc453	07-OCT...	SQL	2	0.021
select name from Restaurant minus (select r.name from Restaurant R, Rating S whe...	csc453	07-OCT...	SQL	2	0.022
select distinct name from (select name, stars from Restaurant R, Rating S where R....	csc453	07-OCT...	SQL	2	0.029
select name from Restaurant where cuisine = 'Indian';	csc453	07-OCT...	SQL	3	0.022
file:/Users/agnieszka/Documents/CSC/453_DarabaseTechnologies/Assignments/...	csc453	07-OCT...	Script	2	0.009

mmand key down to perform "Go to Declaration"

Line 61 Column 82 | Insert | Unix/Mac: LF

SQL Worksheet History



csc453

Worksheet Query Builder

```
select name from Restaurant minus
(select r.name from Restaurant R, Rating S where R.rID = S.rID);

--Q4 Some reviewers didn't provide a date with their rating. Find the names of all reviewers who have ratings with a NULL value for the date
select name from Reviewer V, Rating T where V.vID = T.vID and ratingDate is Null;

--Q5 For all cases where the same reviewer rated the same restaurant twice and gave it a higher rating the
--second time, return the reviewer's name and the name of the restaurant.
select R.name, V.name from Rating r1, Rating r2, Reviewer V, Restaurant R where r1.vID = V.vID and r1.rID = R.rID
and r1.vID = r2.vID and r1.rID = r2.rID and r1.ratingDate > r2.ratingDate and r1.stars > r2.stars;

--Q6 For each restaurant that has at least one rating, find the highest number of stars that a restaurant received.
--Return the restaurant name and number of stars. Sort by restaurant name
select name, max(stars) as Mstars from Restaurant R, Rating S
where R.rID = S.rID group by name order by name;

--Q7 For each restaurant, return the name and the 'rating spread', that is, the difference between highest and lowest
--ratings given to that restaurant. Sort by rating spread from highest to lowest, then by restaurant name.
select name, Hstars-Lstars as Spread from (
```

Script Output Query Result

SQL All Rows Fetched: 6 in 0.04 seconds

	NAME	MSTARS
1	Cumin	3
2	India House Restaurant	4
3	Jade Court	4
4	MingHin Cuisine	5
5	Rangoli	3
6	Shanghai Terrace	5

SQL History



SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select name, max(stars) as Mstars from Restaurant R, Rating S where R.rID = S.rID ...	csc453	07-OCT...	SQL	1	0.04
select R.name, V.name from Rating r1, Rating r2, Reviewer V, Restaurant R where r...	csc453	07-OCT...	SQL	3	0.029
select name from Reviewer V, Rating T where V.vID = T.vID and ratingDate is Null;	csc453	07-OCT...	SQL	2	0.021
select name from Restaurant minus (select r.name from Restaurant R, Rating S whe...	csc453	07-OCT...	SQL	2	0.022
select distinct name from (select name, stars from Restaurant R, Rating S where R...	csc453	07-OCT...	SQL	2	0.029

SQL Worksheet History

Worksheet Query Builder

```
--Q5 For all cases where the same reviewer rated the same restaurant twice and gave it a higher rating the
--second time, return the reviewer's name and the name of the restaurant.
select R.name, V.name from Rating r1, Rating r2, Reviewer V, Restaurant R where r1.vID = V.vID and r1.rid = R.rid
and r1.vID = r2.vID and r1.rID = r2.rID and r1.ratingDate > r2.ratingDate and r1.stars > r2.stars;

--Q6 For each restaurant that has at least one rating, find the highest number of stars that a restaurant received.
--Return the restaurant name and number of stars. Sort by restaurant name
select name, max(stars) as Mstars from Restaurant R, Rating S
where R.rID = S.rID group by name order by name;

--Q7 For each restaurant, return the name and the 'rating spread', that is, the difference between highest and lowest
--ratings given to that restaurant. Sort by rating spread from highest to lowest, then by restaurant name.
select name, Hstars-Lstars as Spread from (
select name, max(stars) as Hstars, min(stars) as Lstars from Restaurant R, Rating S
where R.rID = S.rID group by name )order by Spread DESC, name;

--Q8 Find the difference between the average rating of Indian restaurants and the average rating of Chinese restaurants
Select AVC - AVI from
```

Script Output x Query Result x

SQL All Rows Fetched: 6 in 0.032 seconds

	NAME	SPREAD
1	India House Restaurant	2
2	Jade Court	2
3	Shanghai Terrace	2
4	Cumin	1
5	MingHin Cuisine	1
6	Rangoli	1

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select name, Hstars-Lstars as Spread from (select name, max(stars) as Hstars, min...	csc453	07-OCT...	SQL	2	0.032
select name, max(stars) as Mstars from Restaurant R, Rating S where R.rID = S.rID ...	csc453	07-OCT...	SQL	1	0.04
select R.name, V.name from Rating r1, Rating r2, Reviewer V, Restaurant R where r...	csc453	07-OCT...	SQL	3	0.029
select name from Reviewer V, Rating T where V.vID = T.vID and ratingDate is Null;	csc453	07-OCT...	SQL	2	0.021
select name from Restaurant minus (select r.name from Restaurant R, Rating S whe...	csc453	07-OCT...	SQL	2	0.022

