

Vivek Patel

CSC 453 Section 810

Assignment 2

2/03/2019

1)

The screenshot shows a SQL query editor interface with a 'Worksheet' tab and a 'Query Builder' tab. The query text is: `select name from restaurant where cuisine = 'Indian';`. Below the query editor, there is a 'Script Output' and 'Query Result' section. The 'Query Result' section shows the results of the query, which are 4 rows of restaurant names: India House Restaurant, Bombay Wraps, Rangoli, and Cumin. The 'SQL History' section at the bottom shows the query executed on 10-FEB-19 0... with a duration of 0.015 seconds.

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

SQL	Connection	TimeStamp	Type	Executed	Duration(se...)
select name from restaurant where cuisine = 'Indian';	CSC452	10-FEB-19 0...	SQL	6	0.015

2)

Worksheet


Query Builder

1

```
select distinct name from restaurant r, rating s where s.rid = r.rid and s.stars in(4, 5) order by name;
```

Script Output x

Query Result x

 SQL | All Rows Fetched: 4 in 0.021 seconds

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

SQL History

SQL	Connection	TimeStamp	Type	Executed	Duration(se...)
select distinct name from restaurant r, rating s where s.rid = r.rid and s...	CSC452	10-FEB-19 0...	SQL	2	0.021

3)

Worksheet Query Builder

```
1 select distinct name from restaurant r, rating s where s.rid = r.rid and s.stars in(4, 5) order by name;
```

Script Output x Query Result x

SQL | All Rows Fetched: 4 in 0.021 seconds

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

SQL History

SQL	Connection	TimeStamp	Type	Executed	Duration(se...)
select distinct name from restaurant r, rating s where s.rid = r.rid and s...	CSC452	10-FEB-19 0...	SQL	2	0.021

4)

Worksheet | Query Builder

```
1 select name from reviewer inner join rating using(vid) where ratingdate is null;
```

Script Output x | Query Result x

SQL | All Rows Fetched: 2 in 0.024 seconds

	NAME
1	Daniel L.
2	Suikey S.

SQL History

SQL	Connection	TimeStamp	Type	Executed	Duration(se...)
select name from reviewer inner join rating using(vid) where ratingdate ...	CSC452	10-FEB-19 0...	SQL	2	0.024

5)

Worksheet Query Builder

```
1 select reviewer.name, restaurant.name
2   from restaurant inner join rating s1 using (rid) inner join rating s2 using (vid) inner join reviewer using (vid)
3  where s1.ratingdate < s2.ratingdate and s1.stars < s2.stars;
```

Script Output x Query Result x

SQL | All Rows Fetched: 3 in 0.019 seconds

	NAME	NAME_1
1	Sarah M.	India House Restaurant
2	Suikey S.	Cumin
3	Elizabeth T.	Shanghai Terrace

SQL History

SQL	Connection	TimeStamp	Type	Executed	Duration(se...)
select reviewer.name, restaurant.name from restaurant inner join ra...	CSC452	10-FEB-19 0...	SQL	1	0.019

6)

Worksheet Query Builder

```
1 select name, max(stars) from restaurant inner join rating using (rid) group by rid, name order by name;
```

Script Output x Query Result x

SQL | All Rows Fetched: 6 in 0.022 seconds

	NAME	MAX(STARS)
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	Connection	TimeStamp	Type	Executed	Duration(se...)
select name, max(stars) from restaurant inner join rating using (rid) gro...	CSC452	10-FEB-19 0...	SQL	2	0.022

7)

Worksheet

Query Builder

1

2

```

select name, (max(stars) - min(stars)) as RatingSpread from restaurant
inner join rating using (rid) group by rid, name order by RatingSpread desc, name;

```

Script Output x

Query Result x

All Rows Fetched: 6 in 0.025 seconds

	NAME	RATINGSREAD
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	Connection	TimeStamp	Type	Executed	Duration(se...)
select name, (max(stars) - min(stars)) as RatingSpread from restaurant...	CSC452	10-FEB-19 0...	SQL	1	0.025

8)

Worksheet Query Builder

```
1 select avg(indian.avgstars) - avg(chinese.avgstars)
2 from (select avg(stars) as avgstars from restaurant r inner join rating s on r.rid = s.rid where r.cuisine = 'Indian') indian,
3 (select avg(stars) as avgstars from restaurant r inner join rating s on r.rid = s.rid where r.cuisine = 'Chinese') chinese;
```

Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0.03 seconds

AVG(INDIAN.AVGSTARS)-AVG(CHINESE.AVGSTARS)	
1	-1.14285714285714285714285714285715

SQL History

SQL	Connection	TimeStamp	Type	Executed	Duration(se...)
select avg(indian.avgstars) - avg(chinese.avgstars) from (select avg(...	CSC452	10-FEB-19 0...	SQL	2	0.03