

Brian Bauman
CSC 453 HW 2

(1)

Worksheet: Query Builder

```
--(1)
SELECT name FROM restaurant WHERE cuisine = 'Indian';
--(2)
SELECT name, stars FROM restaurant A, rating B WHERE B.rid = A.rid AND B.stars > 3 ORDER BY stars;
--(3)
SELECT name FROM restaurant A WHERE NOT EXISTS (SELECT * FROM rating B WHERE B.rid = A.rid);
--(4)
SELECT name FROM reviewer R, rating B WHERE B.rid = A.rid AND B.ratingDate IS NULL;
--(5)
SELECT C.name, D.name FROM rating A, rating B, reviewer C, restaurant D WHERE B.rid = A.rid AND B.rid = A.rid AND B.stars > A.stars AND C.rid = B.rid AND C.rid = B.rid;
```

Script Output: Query Result: All Rows Fetched: 4 in 0.104 seconds

NAME
India House Restaurant
Bombay Wraps
Rangoli
Gum

SQL History

```
SQL
SELECT name FROM restaurant WHERE cuisine = 'Indian';
SELECT IndianAvgStars - chineAvgStars FROM (SELECT AVG(avgScore) AS avgStars FROM (SELECT A.name, A.cuisine, AVG(B.stars) AS avgStars FROM restaurant A, rating B WHERE B.rid = A.rid AND A.cuisine = 'Indian' OR C.cuisine = 'Indian' AND C.rid = A.rid) AS avgStars);
```

(2)

Worksheet: Query Builder

```
--(1)
SELECT name FROM restaurant WHERE cuisine = 'Indian';
--(2)
SELECT name, stars FROM restaurant A, rating B WHERE B.rid = A.rid AND B.stars > 3 ORDER BY stars;
--(3)
SELECT name FROM restaurant A WHERE NOT EXISTS (SELECT * FROM rating B WHERE B.rid = A.rid);
--(4)
SELECT name FROM reviewer R, rating B WHERE B.rid = A.rid AND B.ratingDate IS NULL;
--(5)
SELECT C.name, D.name FROM rating A, rating B, reviewer C, restaurant D WHERE B.rid = A.rid AND B.rid = A.rid AND B.stars > A.stars AND C.rid = B.rid AND C.rid = B.rid;
```

Script Output: Query Result: All Rows Fetched: 6 in 0.185 seconds

NAME	STARS
Jade Court	4
MUMUKSHU KISSINE	4
Jade Court	4
India House Restaurant	4
BOMBAY WRAPS	3
Rangoli Cuisine	3

SQL History

```
SQL
SELECT name, stars FROM restaurant A, rating B WHERE B.rid = A.rid AND B.stars > 3 ORDER BY stars;
SELECT name FROM restaurant WHERE cuisine = 'Indian';
SELECT IndianAvgStars - chineAvgStars FROM (SELECT AVG(avgScore) AS avgStars FROM (SELECT A.name, A.cuisine, AVG(B.stars) AS avgStars FROM restaurant A, rating B WHERE B.rid = A.rid AND A.cuisine = 'Indian' OR C.cuisine = 'Indian' AND C.rid = A.rid) AS avgStars);
```

(3)

Worksheet: QueryBuilder

```
--(1)
SELECT name FROM restaurant WHERE cuisine = 'Indian';

--(2)
SELECT name, stars FROM restaurant A, rating B WHERE B.rid = A.rid AND B.stars > 3 ORDER BY stars;

--(3)
SELECT name FROM restaurant A WHERE NOT EXISTS (SELECT * FROM rating B WHERE B.rid = A.rid);

--(4)
SELECT name FROM reviewer A, rating B WHERE B.rid = A.rid AND B.ratingdate IS NULL;

--(5)
SELECT C.name, B.name FROM rating A, rating B, reviewer C, restaurant D WHERE B.rid = A.rid AND B.rid = C.rid AND B.stars > 3 AND B.rid = C.rid AND C.rid = D.rid
```

Script Output: QueryResult

SQL: All Rows Fetched: 2 in 0.184 seconds

NAME
Yoon Seung-ho
Seokhyeon

SQL History

SQL	Feedback
SELECT name FROM restaurant A WHERE NOT EXISTS (SELECT * FROM rating B WHERE B.rid = A.rid);	Correct
SELECT name, stars FROM restaurant A, rating B WHERE B.rid = A.rid AND B.stars > 3 ORDER BY stars;	CSC 453
SELECT name FROM reviewer A, rating B WHERE B.rid = A.rid AND B.ratingdate IS NULL;	CSC 453
SELECT C.name, B.name FROM rating A, rating B, reviewer C, restaurant D WHERE B.rid = A.rid AND B.rid = C.rid AND B.stars > 3 AND B.rid = C.rid AND C.rid = D.rid	CSC 453

(4)

SQL Worksheet: History

Worksheet: QueryBuilder

```
--(1)
SELECT name FROM restaurant WHERE cuisine = 'Indian';

--(2)
SELECT name, stars FROM restaurant A, rating B WHERE B.rid = A.rid AND B.stars > 3 ORDER BY stars;

--(3)
SELECT name FROM restaurant A WHERE NOT EXISTS (SELECT * FROM rating B WHERE B.rid = A.rid);

--(4)
SELECT name FROM reviewer A, rating B WHERE B.rid = A.rid AND B.ratingdate IS NULL;

--(5)
SELECT C.name, B.name FROM rating A, rating B, reviewer C, restaurant D WHERE B.rid = A.rid AND B.rid = C.rid AND B.stars > 3 AND B.rid = C.rid AND C.rid = D.rid
```

Script Output: QueryResult

SQL: All Rows Fetched: 2 in 0.194 seconds

NAME
Yoon Seung-ho
Seokhyeon

SQL History

SQL	Feedback
SELECT name FROM reviewer A, rating B WHERE B.rid = A.rid AND B.ratingdate IS NULL;	Correct
SELECT name FROM restaurant A WHERE NOT EXISTS (SELECT * FROM rating B WHERE B.rid = A.rid);	CSC 453
SELECT name, stars FROM restaurant A, rating B WHERE B.rid = A.rid AND B.stars > 3 ORDER BY stars;	CSC 453
SELECT C.name, B.name FROM rating A, rating B, reviewer C, restaurant D WHERE B.rid = A.rid AND B.rid = C.rid AND B.stars > 3 AND B.rid = C.rid AND C.rid = D.rid	CSC 453

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Worksheet: Query Builder

```
--[13]
SELECT name FROM restaurant A WHERE NOT EXISTS (SELECT * FROM rating B WHERE B.rID = A.rID);
--[14]
SELECT name FROM reviewer A, rating B WHERE B.rID = A.rID AND B.ratingdate IS NULL;
--[15]
SELECT C.name, D.name FROM rating A, rating B, reviewer C, restaurant D WHERE B.rID = A.rID AND B.rID = A.rID AND B.stars > A.stars
AND C.rID = B.rID AND D.rID = B.rID;
--[16]
SELECT A.name, MAX(stars) FROM restaurant A, rating B WHERE EXISTS (SELECT * FROM rating WHERE rID = A.rID) AND B.rID = A.rID GROUP BY A.name ORDER BY A.name;
--[17]
SELECT A.name, (MAX(stars) - MIN(stars)) FROM restaurant A, rating B WHERE B.rID = A.rID GROUP BY A.name ORDER BY (MAX(stars) - MIN(stars)) DESC, A.name;
```

Script Output: Query Result

All Rows Fetched: 2 in 0.192 seconds

NAME	NAME
1	India House Restaurant
2	By: Harris Jade Court

SQL History

SQL

Comment:

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CSC 453

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Worksheet: Query Builder

```
--[1]
SELECT name FROM reviewer A WHERE NOT EXISTS (SELECT * FROM rating B WHERE B.rID = A.rID);
--[2]
SELECT name FROM reviewer A, rating B WHERE B.rID = A.rID AND B.ratingdate IS NULL;
--[3]
SELECT C.name, D.name FROM rating A, rating B, reviewer C, restaurant D WHERE B.rID = A.rID AND B.rID = A.rID AND B.stars > A.stars
AND C.rID = B.rID AND D.rID = B.rID;
--[4]
SELECT A.name, MAX(stars) FROM restaurant A, rating B WHERE EXISTS (SELECT * FROM rating WHERE rID = A.rID) AND B.rID = A.rID GROUP BY A.name ORDER BY A.name;
--[5]
SELECT A.name, (MAX(stars) - MIN(stars)) FROM restaurant A, rating B WHERE B.rID = A.rID GROUP BY A.name ORDER BY (MAX(stars) - MIN(stars)) DESC, A.name;
```

Script Output: Query Result

All Rows Fetched: 6 in 0.184 seconds

NAME	MAX(stars)
1	Curio
2	India House Restaurant
3	Jade Court
4	Mingren Terrace
5	Rangoli
6	Shanghai Terrace

SQL History

SQL

Comment:

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Worksheet | Query Builder

```

[+]
SELECT C.name, C.name FROM rating A, rating B, reviewer C, restaurant D WHERE R.rid = A.rid AND R.rid = B.rid AND B.restid = A.restid
AND A.rid = B.rid AND B.rid = C.rid;

[-]
WHERE C.name, REV(R.star) FROM restaurant A, rating B WHERE FYNOC (R.FIT) < FROM rating WHERE r(1) = A.r(1) AND R.r(1) = A.r(1) GROUP BY C.name ORDER BY C.name;

---[]
SELECT A.name, MAX(B.star) - MIN(C.star) FROM restaurant A, rating B WHERE B.rid = A.rid GROUP BY A.name ORDER BY (MAX(B.star) - MIN(C.star)) DESC, A.name;

--[]
SELECT IndianAvgStars - ChineseAvgStars --get difference between Indian average and chinese average
FROM (SELECT AVG(star) as avgStars -- get average rating of all Indian restaurants
FROM (SELECT A.name --get average rating vs each Indian restaurant
      , B.RESTID
      , A.R(1),star) AS avgScore

```

Script Output | Query Results

#	NAME	(MAX(STARS)-MIN(STARS))
1	India House Restaurant	2
2	Jade Court	2
3	Mandala Terrace	2
4	Tutti's	1
5	Hongtin Cuisine	1
6	Konyuli	1

SQL History

```

SQL
SELECT A.name, (MAX(B.star) - MIN(C.star)) FROM restaurant A, rating B WHERE EXISTS (SELECT * FROM rating WHERE B.rid = A.rid AND B.rid = A.rid GROUP BY A.name ORDER BY A.name);
SELECT A.name, MAX(B.star) FROM restaurant A, rating B WHERE EXISTS (SELECT * FROM rating WHERE B.rid = A.rid AND B.rid = A.rid AND B.star > A.star AND C.rid = B.rid AND Dr B = ...

```

(8)

```

--11
SELECT (indian_avgStars - chinese_avgStars) --get difference between indian average and chinese average
FROM (SELECT avg(stars) as avgStars --get average rating of all indian restaurants
FROM (SELECT A.name --get average rating of each indian restaurant
      , A.avgStars
      , AREB(stars) as avgStars
FROM restaurant A
      , rating B
WHERE B.rid = A.rid
AND A.cuisine = 'Indian'
GROUP BY A.name
      , A.avgStars)
      , (SELECT avg(stars) as avgStars --get average rating of all chinese restaurants
FROM (SELECT A.name --get average rating of each chinese restaurant
      , A.avgStars
      , AREB(stars) as avgStars
FROM restaurant A
      , rating B
WHERE B.rid = A.rid
AND A.cuisine = 'Chinese'
GROUP BY A.name
      , A.avgStars)
GROUP BY (indian_avgStars - chinese_avgStars)

```

