

1. Explain what the following terms mean in your own words

a)Join – is when you combine two or more different tables into a single table

b)Inner Join – is when you combine/join only those piece of data/information that exists in both tables

c)Left Join – is when whole Table A is select with only those parts of Table B that matches Table A

d)Right Join – is when whole Table B is selected with only those parts of Table A that matches Table B

e)Full Join – is when you combine/join whole data from Table A and Table B

SQL Questions

1. Select rows in student_info table whose names start with 'l'

The screenshot shows a SQL IDE with a query editor and a results pane. The query editor contains the following SQL code:

```
--LIKE OR WILDCARDS
--select * from lecture.student_info where name like 's%'

-----> ASSIGNMENT QUESTIONS

--(Select rows in student_info table whose names start with 'l')
select * from lecture.student_info where name like 'l%'

--Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Inner Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small inner join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Left Join ratings_small and links_small table on column movieid\
--select * from lecture.ratings_small left join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Right Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small right join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid
```

The results pane shows the output of the query:

rollno	name	address	phone	age
1	leyla	seattle	3247234913	2

2. Join ratings_small and links_small table on column movieid

The screenshot shows a SQL IDE with a script editor and a results grid. The script editor contains the following SQL code:

```
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-----> ASSIGNMENT QUESTIONS

--(Select rows in student_info table whose names start with 'l')
--select * from lecture.student_info where name like 'l%'

--Join ratings_small and links_small table on column movieid
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--Left Join ratings_small and links_small table on column movieid\
--select * from lecture.ratings_small left join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Right Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small right join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid
```

The results grid displays the output of the join query. The columns are: user_id, movieid, rating, timestamp, movieid, imdbid, and tmdbid. The data is as follows:

	user_id	movieid	rating	timestamp	movieid	imdbid	tmdbid
1	1	31	2.5	1,260,759,144	31	112,792	9,909
2	1	1,029	3	1,260,759,179	1,029	33,563	11,360
3	1	1,061	3	1,260,759,182	1,061	117,665	819
4	1	1,129	2	1,260,759,185	1,129	82,340	1,103
5	1	1,172	4	1,260,759,205	1,172	95,765	11,216
6	1	1,263	2	1,260,759,151	1,263	77,416	11,778
7	1	1,287	2	1,260,759,187	1,287	52,618	665
8	1	1,293	2	1,260,759,148	1,293	83,987	783
9	1	1,339	3.5	1,260,759,125	1,339	103,874	6,114
10	1	1,343	2	1,260,759,131	1,343	101,540	1,598
11	1	1,371	2.5	1,260,759,135	1,371	79,945	152
12	1	1,405	1	1,260,759,203	1,405	115,641	3,179
13	1	1,953	4	1,260,759,191	1,953	67,116	1,051

3. Inner Join ratings_small and links_small table on column movieid

The screenshot shows a SQL IDE with a script editor and a results grid. The script editor contains the following SQL code:

```
--LIKE OR WILDCARDS
--select * from lecture.student_info where name like 's%'

-----> ASSIGNMENT QUESTIONS

--(Select rows in student_info table whose names start with 'l')
--select * from lecture.student_info where name like 'l%'

--Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Inner Join ratings_small and links_small table on column movieid
select * from lecture.ratings_small inner join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Left Join ratings_small and links_small table on column movieid\
--select * from lecture.ratings_small left join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Right Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small right join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid
```

The results grid displays the output of the inner join query. The columns are: user_id, movieid, rating, timestamp, movieid, imdbid, and tmdbid. The data is as follows:

	user_id	movieid	rating	timestamp	movieid	imdbid	tmdbid
1	1	31	2.5	1,260,759,144	31	112,792	9,909
2	1	1,029	3	1,260,759,179	1,029	33,563	11,360
3	1	1,061	3	1,260,759,182	1,061	117,665	819
4	1	1,129	2	1,260,759,185	1,129	82,340	1,103
5	1	1,172	4	1,260,759,205	1,172	95,765	11,216
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10	1	1,343	2	1,260,759,131	1,343	101,540	1,598
11	1	1,371	2.5	1,260,759,135	1,371	79,945	152
12	1	1,405	1	1,260,759,203	1,405	115,641	3,179
13	1	1,953	4	1,260,759,191	1,953	67,116	1,051

4. Left Join ratings_small and links_small table on column movieid

```
--LIKE OR WILDCARDS
--select * from lecture.student_info where name like 's%'

-----> ASSIGNMENT QUESTIONS

--(Select rows in student_info table whose names start with 'l')
--select * from lecture.student_info where name like 'l%'

--Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Inner Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small inner join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Left Join ratings_small and links_small table on column movieid\
select * from lecture.ratings_small left join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Right Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small right join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid
```

ratings_small(+1) x

select * from lecture.ratings_small left join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

	userid	movieid	rating	timestamp	movieid	imdbid	tmdbid
1	1	31	2.5	1,260,759,144	31	112,792	9,909
2	1	1,029	3	1,260,759,179	1,029	33,563	11,360
3	1	1,061	3	1,260,759,182	1,061	117,665	819
4	1	1,129	2	1,260,759,185	1,129	82,340	1,103
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12	1	1,405	1	1,260,759,203	1,405	115,641	3,179
13	1	1,953	4	1,260,759,191	1,953	67,116	1,051
14	1	2,105	4	1,260,759,130	2,105	84,877	97

Rows: 1 200 row(s) fetched - 98ms, on Mar 09, 19:57:15

5. Right Join ratings_small and links_small table on column movieid

```
-----> ASSIGNMENT QUESTIONS

--(Select rows in student_info table whose names start with 'l')
--select * from lecture.student_info where name like 'l%'

--Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Inner Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small inner join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Left Join ratings_small and links_small table on column movieid\
--select * from lecture.ratings_small left join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Right Join ratings_small and links_small table on column movieid
select * from lecture.ratings_small right join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Full Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small full join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid
```

ratings_small(+1) x

select * from lecture.ratings_small right join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

	userid	movieid	rating	timestamp	movieid	imdbid	tmdbid
1	1	31	2.5	1,260,759,144	31	112,792	9,909
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13	1	1,953	4	1,260,759,191	1,953	67,116	1,051
14	1	2,105	4	1,260,759,130	2,105	84,877	97

Rows: 1 200 row(s) fetched - 68ms, on Mar 09, 19:58:11

6. Full Join ratings_small and links_small table on column movieid

dataanalyticsbootcamp

Script-1 ratings links_small ratings_small dataanalytic... *dataanaly... ratings_small student_info links_small

-----> ASSIGNMENT QUESTIONS

```
--(Select rows in student_info table whose names start with '1')
--select * from lecture.student_info where name like '1%'

--Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Inner Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small inner join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Left Join ratings_small and links_small table on column movieid\
--select * from lecture.ratings_small left join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Right Join ratings_small and links_small table on column movieid
--select * from lecture.ratings_small right join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid

--Full Join ratings_small and links_small table on column movieid
select * from lecture.ratings_small full join lecture.links_small on lecture.ratings_small.movieid=lecture.links_small.movieid
```

ratings_small(+)

select * from lecture.ratings_small full join lect Enter a SQL expression to filter results (use Ctrl+Space)

	userid	movieid	rating	timestamp	movieid	imdbid	tmdbid
1	1	31	2.5	1,260,759,144	31	112,792	9,909
2	1	1,029	3	1,260,759,179	1,029	33,563	11,360
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11	1	1,371	2.5	1,260,759,135	1,371	79,945	152
12	1	1,405	1	1,260,759,203	1,405	115,641	3,179
13	1	1,953	4	1,260,759,191	1,953	67,116	1,051
14	1	2,105	4	1,260,759,130	2,105	84,827	97

Save Cancel Script Rows: 1 200+ fetched - 61ms, on Mar 09, 19:59:13