

Table

1.What is the schema of the ratings_small table?

The screenshot shows the DBeaver interface with the 'ratings_small' table selected. The table structure is visible in the 'Properties' tab, and the table data is displayed in the 'Data' tab. A red box highlights the column headers: '123 user_id', '123 movie_id', '123 rating', and '123 timestamp'. A red arrow points from the text 'Schema: when we want to create a table, firstly we must design it, when we design a table we put a table name and attributes. This table name and attributes will be schema.' to the highlighted column headers.

Schema: when we want to create a table, firstly we must design it, when we design a table we put a table name and attributes. This table name and attributes will be schema.

2.What are the data types of the columns in the ratings_small table?

The screenshot shows the DBeaver interface with the 'ratings_small' table selected. The table structure is visible in the 'Properties' tab, and the table data is displayed in the 'Data' tab. A red box highlights the column headers: '123 user_id', '123 movie_id', '123 rating', and '123 timestamp'. A red arrow points from the text 'Schema: when we want to create a table, firstly we must design it, when we design a table we put a table name and attributes. This table name and attributes will be schema.' to the highlighted column headers.

Schema: when we want to create a table, firstly we must design it, when we design a table we put a table name and attributes. This table name and attributes will be schema.

3. What are all the columns that are there in the ratings_small table?

The screenshot shows the DBeaver 21.3.5 interface. On the left, the Database Navigator displays the schema structure for 'dataanalyticsbootcamp'. The 'ratings_small' table is highlighted, showing it has 4.3M rows. The main editor shows a list of SQL queries. The 'Results' panel at the bottom displays the first 10 rows of the 'ratings_small' table. The columns are: 'userid', 'movieid', 'rating', and 'timestamp'.

	userid	movieid	rating	timestamp
1	1	1,029	3	1,260,759,179
2	1	1,061	3	1,260,759,182
3	1	1,129	2	1,260,759,185
4	1	1,172	4	1,260,759,205
5	1	1,263	2	1,260,759,151
6	1	1,287	2	1,260,759,187
7	1	1,293	2	1,260,759,148
8	1	1,343	2	1,260,759,131
9	1	1,953	4	1,260,759,191
10	1	2,105	4	1,260,759,139

SQL Queries

1. Find all distinct "userid" in the ratings_small table?

The screenshot shows the DBeaver 21.3.5 interface. The SQL editor contains the query: `select distinct userid from lecture.ratings_small`. The 'Results' panel at the bottom displays the first 10 rows of the query results, showing distinct 'userid' values.

	userid
1	184
2	87
3	652
4	477
5	273
6	550
7	394
8	51
9	272
10	70

2. Find all distinct "movieid" in the ratings_small table?

The screenshot shows the DBeaver 21.3.5 interface. The left sidebar displays the database structure for 'dataanalyticsbootcamp', including tables like 'course_info', 'links', 'links_small', 'ratings', 'ratings_small', and 'student_info'. The main editor shows a SQL script with the query: `--select distinct userid from lecture.ratings_small` and `select distinct movieid from lecture.ratings_small`. The 'Results' panel shows the output of the second query, displaying a grid of 10 rows with the 'movieid' column. The first row shows the value 6114. The status bar at the bottom indicates '200 row(s) fetched - 50ms, on Mar 05, 19:31:57'.

Grid	movieid
1	6114
2	273
3	3,936
4	128,606
5	4,326
6	2,520
7	25,886
8	1,750
9	4,321
10	5,230

3. Find all distinct "rating" in the ratings_small table?

The screenshot shows the DBeaver 21.3.5 interface. The left sidebar displays the database structure for 'dataanalyticsbootcamp'. The main editor shows a SQL script with the query: `--select distinct userid from lecture.ratings_small` and `select distinct rating from lecture.ratings_small`. The 'Results' panel shows the output of the second query, displaying a grid of 10 rows with the 'rating' column. The first row shows the value 3.5. The status bar at the bottom indicates '10 row(s) fetched - 78ms (22ms fetch), on Mar 05, 19:33:09'.

Grid	rating
1	3.5
2	3
3	4
4	4.5
5	1
6	0.5
7	1.5
8	2.5
9	2
10	5

4. Select the first 10 rows of “userid” from ratings_small table?

The screenshot shows the DBeaver 21.3.5 interface. The left sidebar displays the database structure for 'dataanalyticsbootcamp', including tables like 'course_info', 'links', 'links_small', 'ratings', 'ratings_small', and 'student_info'. The main editor shows a SQL script with the following queries:

```
--select distinct userid from lecture.ratings_small
--select distinct movieid from lecture.ratings_small
--select distinct rating from lecture.ratings_small
select userid from lecture.ratings_small limit 10
```

The results are displayed in a grid with 10 rows, all showing the value 1 for the 'userid' column.

userid
1
1
1
1
1
1
1
1
1
1

5. Select the first 5 rows of “movieid” from ratings_small table?

The screenshot shows the DBeaver 21.3.5 interface. The left sidebar displays the database structure for 'dataanalyticsbootcamp'. The main editor shows a SQL script with the following queries:

```
--select distinct userid from lecture.ratings_small
--select distinct movieid from lecture.ratings_small
--select distinct rating from lecture.ratings_small
--select userid from lecture.ratings_small limit 10
select movieid from lecture.ratings_small limit 5
```

The results are displayed in a grid with 5 rows, showing the 'movieid' values: 31, 1,029, 1,061, 1,129, and 1,172.

movieid
31
1,029
1,061
1,129
1,172

6. Select the first 15 rows of “rating” from ratings_small table?

DBeaver 21.3.5 - <dataanalyticsbootcamp> Script-7

Database Navigator

dataanalyticsbootcamp - database-1.c7i973aoi8cl.us-east-1.amazonaws.com

- dataanalyticsbootcamp
 - Schemas
 - lecture
 - Tables
 - course_info 8K
 - links 2M
 - links_small 432K
 - ratings 1.1G
 - ratings_small 4.3M
 - student_info 16K
 - Views
 - Materialized Views
 - Indexes
 - Functions
 - Sequences
 - Data types
 - Aggregate functions
 - practice
 - Event Triggers
 - Extensions
 - Storage

SQL Editor

```
--select distinct userid from lecture.ratings_small
--select distinct movieid from lecture.ratings_small
--select distinct rating from lecture.ratings_small
--select userid from lecture.ratings_small limit 10
--select movieid from lecture.ratings_small limit 5
select rating from lecture.ratings_small limit 15
```

Grid

	rating
1	2.5
2	3
3	3
4	2
5	4
6	2
7	2
8	2
9	3.5
10	2

15 row(s) fetched - 31ms, on Mar 05, 19:42:39

EST en_US Writable Smart Insert 6 : 50 : 313 Sel: 0 | 0