

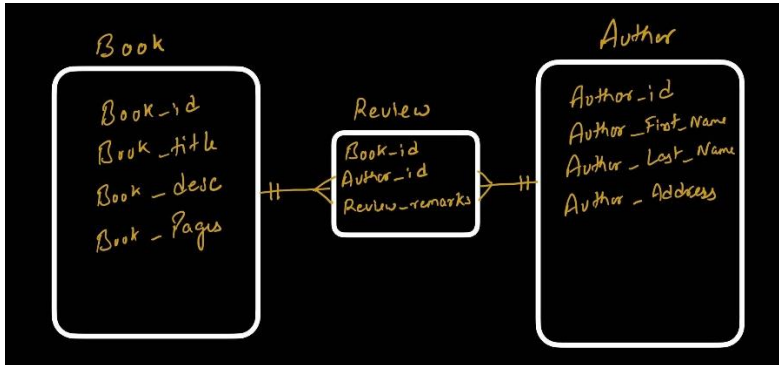
Q1. Primary Key

Given four types of attributes related to a student, which of the following should be used as a Primary Key?

- A. Student Name
- B. Student ID
- C. Student City
- D. Department Name

Q2. Books and authors

What is the relationship between the Book table and the Author table?



- A. One to one
- B. One to many
- C. Many to one
- D. Many to many

Q3. Customer_gender

Let's assume you have a 'customers' table with the following columns:

- customer_id
- first_name
- last_name
- gender
- email_id
- address

Which of the following will be the optimal data type for the 'gender' column, considering that the value has to be either 'M' or 'F'?

- A. VARCHAR(1)
- B. CHAR(1)
- C. CHAR(2)
- D. TEXT(1)

Q4. Relation btw 2 tables

Which of the following type of Key is used to create relationships between two tables?

- A. Foreign Key
- B. Primary Key
- C. Candidate Key
- D. Composite Key

Q5. Not a Database

Which of the following is not a database management system?

- A. Oracle
- B. MySQL
- C. BigQuery
- D. SQLite

Q6. Top 5 popular movies

Problem Statement:

Find the movie titles, taglines, and directors for the top 5 popular movies.

- Return the columns '**original_title**', '**tagline**', and '**director**'.

Dataset description for `movies` table:

- 1) id - tmdb movie id
- 2) imdb_id - imdb movie id
- 3) popularity -A numeric quantity specifying the movie's popularity.
- 4) budget -The budget in which the movie was made.
- 5) revenue - The worldwide revenue generated by the movie.
- 6) original_title- The title of the movie
- 7) cast - The name of the lead and supporting actors.
- 8) homepage - A link to the homepage of the movie.
- 9) director - The name of the director of the movie
- 10) tagline - Movie's tagline.
- 11) keywords -The keywords or tags related to the movie.
- 12) overview -A brief description of the movie.
- 13) runtime -The running time of the movie in minutes.

14) genres -The genres of the movies

15) production_companies-The production house of the movie.

16) release_date -the date on which it was released.

17) vote_count -the count of votes received.

18) vote_average - average ratings the movie received.

19) release_year - the year on which it was released.

Sample Input:

Table: movies

id	original_title	tagline	director	popularity
135397	Jurassic World	The park is open.	Colin Trevorrow	32.985763
76341	Mad Max: Fury Road	What a Lovely Day.	George Miller	28.419936
262500	Insurgent	One Choice Can De...	Robert Schwen...	13.112507
140607	Star Wars: The Force Awakens	Every generation ha...	J.J. Abrams	11.173104
168259	Furious 7	Vengeance Hits Home	James Wan	9.335014
76757	Jupiter Ascending	Expand your universe.	Lana Wachows...	6.189369
99861	Avengers: Age of Ultron	A New Age Has Co...	Joss Whedon	5.944927

Sample Output:

original_title	tagline	director
Jurassic World	The park is open.	Colin Trevorrow
Mad Max: Fury Road	What a Lovely Day.	George Miller
Insurgent	One Choice Can De...	Robert Schwen...
Star Wars: The Force Awakens	Every generation ha...	J.J. Abrams
Furious 7	Vengeance Hits Home	James Wan

Q7. Third highest revenue

Problem Statement:

Write a query to find **all** the details of the **movie** that has the **third-highest** revenue.

Note:

- Return **all** the columns.
- No two movies have the same revenue. (i.e, all the values in the revenue column are unique).

Dataset description for movies table is exactly same as the above example

Sample Input:

Table: movies

id	imdb_id	popularity	budget	revenue	original_title	cast	homepage	director	tagline	keywords	overview	runtime	genres	production_companies	release_date	vote_count	vote_average	release_year	budget_adj	revenue_adj
135397	tt0369610	32.985763	15000...	1513528810	Jurassic World	Chris Pratt	http://www.jurassicworld.com	Colin Trevorrow	The paleontologists discovered a new species of dinosaur, but it was too late to save the one that was already on the loose.	monsters	Twenty-two million years ago, a massive asteroid struck the earth, wiping out the dinosaurs. Now, a new species of dinosaur has been discovered, and it's the most dangerous yet.	124	Action/Adventure	Universal Studios/Amblin Entertainment	6/9/2015	5562	6.5	2015	137999939.3	1392445893
76341	tt1392190	28.419936	15000...	378436354	Mad Max: Fury Road	Tom Hardy	http://www.madmax.com	George Miller	What a beautiful mess.	future/retro	An apocalyptic world in which ruthless bands of scavengers search for fuel, in a desert filled with deadly traps.	120	Action/Adventure	Village Roadshow Pictures/Kennedy Miller	5/13/2015	6185	7.1	2015	137999939.3	348161292.5
262500	tt2908446	13.112507	11000...	295238201	Insurgent	Shia LaBeouf	http://www.insurgentmovie.com	Robert Schwick	One city. Based on the best-selling novel by Veronica Roth.	based on books	Beatrice Prior	119	Adventure/Science Fiction	Summit Entertainment/Universal	3/18/2015	2480	6.3	2015	101199955.5	271619025.4
140607	tt2488496	11.173104	20000...	2068178225	Star Wars: The Force Awakens	Harrison Ford	http://www.starwars.com	J.J. Abrams	Every generation has a hero.	android	Thirty years after the events of the original Star Wars trilogy, a new generation of heroes has risen to take on the Galactic Empire.	136	Action/Adventure	Lucasfilm/Truist Pictures	12/15/2015	5292	7.5	2015	183999919	1902723130
168259	tt2820852	9.335014	19000...	1506249360	Furious 7	Vin Diesel	http://www.furious7.com	James Wan	Vengeance is a car race.	car race	Deckard Shaw	137	Action/Adventure	Universal Pictures/Original Film	4/1/2015	2947	7.3	2015	174799923.1	1385748801
76757	tt1617661	6.189369	17600...	183987723	Jupiter Ascending	Milla Jovovich	http://www.jupiterascending.com	Lana Wachowski	Expand your mind.	jupiter is a planet	In a universe where the rich live in space stations and the poor live on the ground, a young woman discovers her true identity.	124	Science Fiction/Adventure	Village Roadshow Pictures/Universal	2/4/2015	1937	5.2	2015	161919931.5	169268630.7
99861	tt2395427	5.944927	28000...	1405035767	Avengers: Age of Ultron	Robert Downey Jr.	http://marvel.com	Joss Whedon	A new Marvel.	marvel	When Tony Stark and his fellow Avengers discover that a powerful, artificial intelligence has been created, they must band together to stop it before it's too late.	141	Action/Adventure	Marvel Studios/Prime Focus	4/22/2015	4304	7.4	2015	257599886.7	1292632337

Sample Output:

id	imdb_id	popularity	budget	revenue	original_title	cast	homepage	director	tagline	keywords	overview	runtime	genres	production_companies	release_date	vote_count	vote_average	release_year	budget_adj	revenue_adj
168259	tt2820852	9.335014	19000...	1506249360	Furious 7	Vin...	http://ww...	James...	Venge...	car rac...	Deckard...	137	Actionl...	Universal Pictures Orig...	4/1/2015	2947	7.3	2015	174799923.1	1385748801

Q8. Correct syntax

Choose the correct order in which the following clauses are arranged in a SQL query?

- SELECT > FROM > LIMIT > ORDER BY
- SELECT > ORDER BY > FROM > LIMIT
- SELECT > FROM > ORDER BY > LIMIT
- FROM > SELECT > ORDER BY > LIMIT