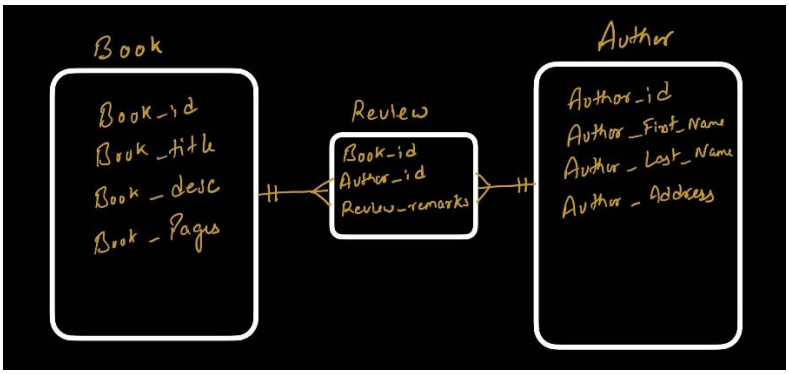
Q1. Primary Key

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	Chri...	http://ww...	Colin Tr...	The pa...	monste...	Twenty-t...	124	Actionl...	Universal StudioslAmbl...	6/9/2015	5562	6.5	2015	137999939.3	1392445893
76341	tt1392190	28.419936	15000...	378436354	Mad Max: F...	Tom...	http://ww...	George...	What a...	futurelc...	An apoca...	120	Actionl...	Village Roadshow Pict...	5/13/2015	6185	7.1	2015	137999939.3	348161292.5
262500	tt2908446	13.112507	11000...	295238201	Insurgent	Sha...	http://ww...	Robert...	One C...	based o...	Beatrice...	119	Adventu...	Summit Entertainmentl...	3/18/2015	2480	6.3	2015	101199955.5	271619025.4
140607	tt2488496	11.173104	20000...	2068178225	Star Wars: T...	Harr...	http://ww...	J.J. Abr...	Every g...	android...	Thirty ye...	136	Actionl...	LucasfilmlTruenorth Pr...	12/15/2015	5292	7.5	2015	183999919	1902723130
168259	tt2820852	9.335014	19000...	1506249360	Furious 7	Vin...	http://ww...	James...	Vengea...	car rac...	Deckard...	137	Actionl...	Universal PicturesIOrigi...	4/1/2015	2947	7.3	2015	174799923.1	1385748801
76757	tt1617661	6.189369	17600...	183987723	Jupiter Asce...	Mila...	http://ww...	Lana W...	Expand...	jupiterls...	In a univ...	124	Science...	Village Roadshow Pict...	2/4/2015	1937	5.2	2015	161919931.5	169268630.7
99861	tt2395427	5.944927	28000...	1405035767	Avengers: A...	Rob...	http://ma...	Joss W...	A New...	marvel...	When To...	141	Actionl...	Marvel StudioslPrime F...	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 PicturesIOrigi...	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?

A. SELECT > FROM > LIMIT > ORDER BY
B. SELECT > ORDER BY > FROM > LIMIT
C. SELECT > FROM > ORDER BY > LIMIT
D. FROM > SELECT > ORDER BY > LIMIT