

FREELANCE MARKETPLACE DATA ANALYSIS

-EXPLORING TRENDS, PERFORMANCE, AND RELATIONSHIPS IN
FREELANCER-CLIENT PROJECTS

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Project Overview

Objective: To analyze a custom freelance marketplace dataset and derive meaningful business insights.

Dataset: Unique, self-created freelance platform dataset with multiple tables (projects, freelancers, clients, bids, transactions).

Tools Used: MySQL Workbench, Canva (for presentation).

Analysis Scope:

- Easy-level queries: Basic retrievals and aggregations.
- Medium-level queries: Joins and grouped analysis.
- Hard-level queries: Complex joins and analytical queries for business KPIs.



Dataset Overview

Dataset Name: Freelance Platform Database

Total Tables: 4

bids

id, freelancer_id, project_id, bid_amount, bid_date, status

clients

id, name, company, country

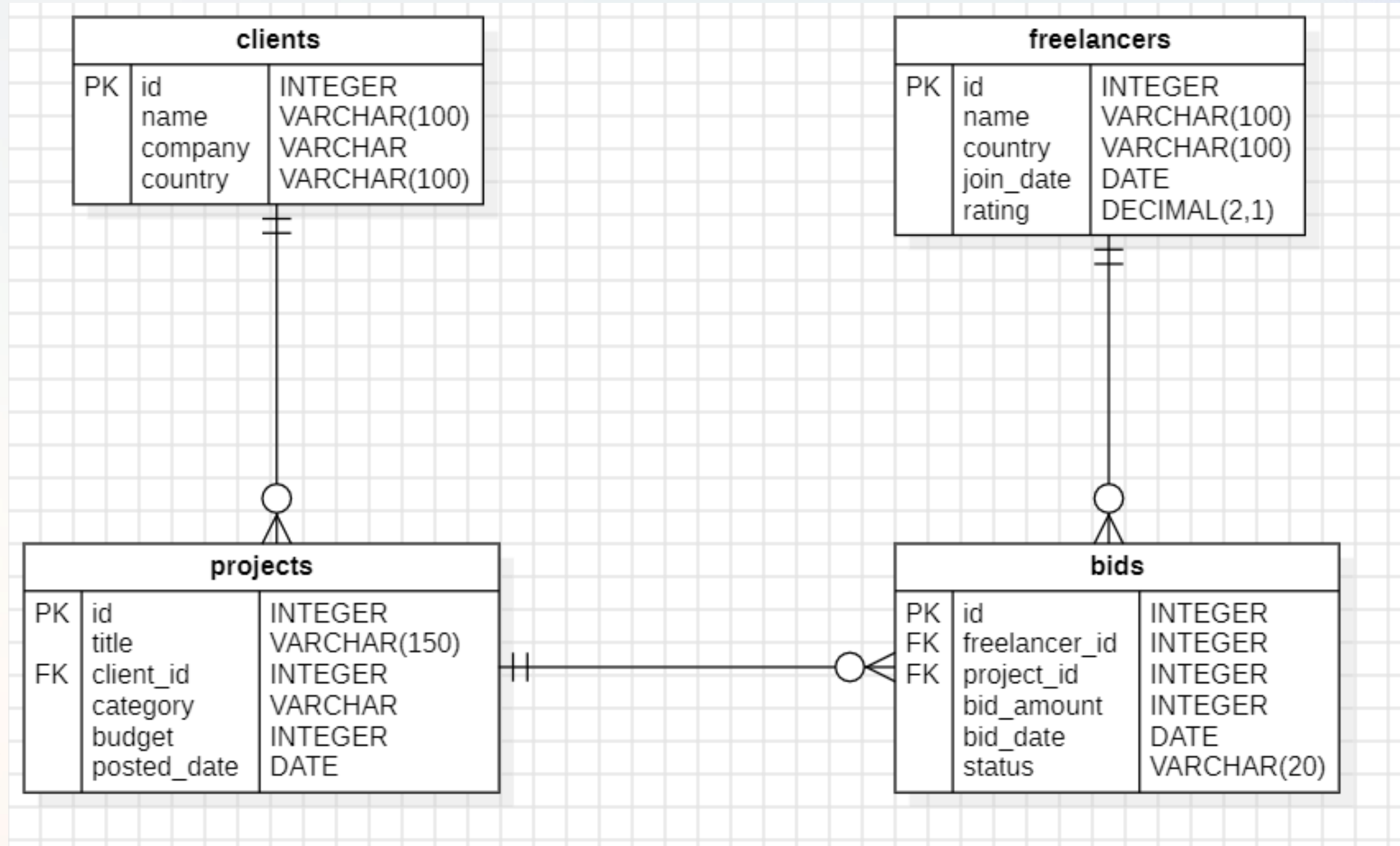
freelancers

id, name, country, join_date, rating

projects

id, title, client_id, category, budget, posted_date

ER Diagram Of Freelance Platform Database



SQL Queries

Simple SQL Queries:

- List all freelancers from American Samoa
- Find all distinct countries represented by clients
- Show the top 5 projects with the highest budgets
- Get all bids with amount greater than project budget
- Find all freelancers who made a bid on a project in the AI category
- Count how many freelancers are from each country

Medium SQL Queries:

- Find the total number of projects posted by each client
- List the average bid amount for each project
- Show freelancers who have placed more than 5 bids
- Find the highest bid placed for each project
- Count the number of freelancers from each country who have at least 1 accepted bid

Hard SQL Queries:

- Find Freelancers who placed a bid higher than the average bid for the same project
- Find Freelancers whose rating is above the average rating of freelancers from the same country and who have completed at least 3 projects
- Find Freelancers whose rating is above the overall average freelancer rating and who have worked with more than 2 different clients

Simple SQL Queries

List all freelancers from American Samoa country

```
1  -- List all freelancers from American Samoa country
2
3  •  SELECT * FROM freelancers
4     WHERE country = 'American Samoa';
5
```

Output-->

Result Grid						Filter Rows:	Edit:	Ex
	id	name	country	join_date	rating			
▶	17	Walter Pratt	American Samoa	2025-07-27	4.9			
	36	Faith Cabrera	American Samoa	2024-06-28	3.5			

Simple SQL Queries

Find all distinct countries represented by clients

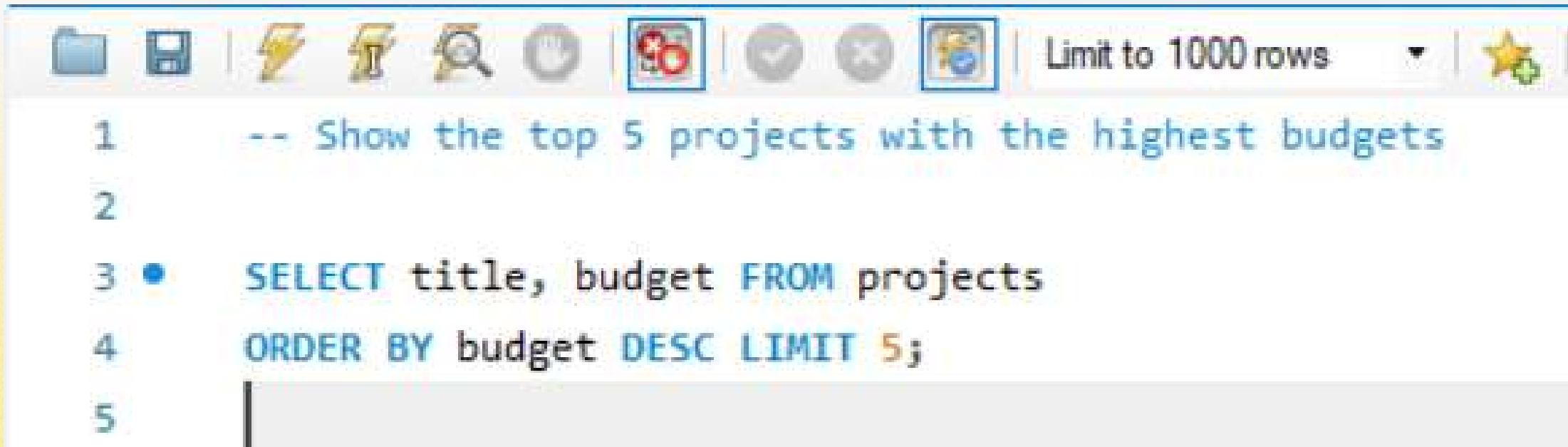
```
1  -- Find all distinct countries represented by clients
2
3  ● SELECT DISTINCT country,name FROM clients;
4
```

Output-->

	country	name
▶	Sao Tome and Principe	Amber Carson
	Philippines	Jennifer Dunn
	Cook Islands	Veronica Monroe
	British Indian Ocean Territory (Chagos Archipel...	Adrian Herring
	Luxembourg	Aaron Smith
	Indonesia	Veronica Lowe
	Equatorial Guinea	Cheryl Franklin
	Cote d'Ivoire	Eric Barker
	Norway	John Livingston
	Armenia	Alison Sloan

Simple SQL Queries

Show the top 5 projects with the highest budgets



```
1  -- Show the top 5 projects with the highest budgets
2
3  •  SELECT title, budget FROM projects
4  ORDER BY budget DESC LIMIT 5;
5
```

Output-->

	title	budget
▶	Integrate End-To-End Functionalities	4959
	Productize Best-Of-Breed Technologies	4837
	Synergize Integrated Markets	4666
	Synthesize 24/365 Users	4625
	Matrix Leading-Edge E-Business	4447

Simple SQL Queries

Get all bids with amount greater than project budget

```
1  -- Get all bids with amount greater than project budget
2
3  •  SELECT bids.id as bid_id, bids.bid_amount, projects.budget FROM bids
4     JOIN projects ON bids.project_id = projects.id
5     WHERE bids.bid_amount > projects.budget
6     order by bid_amount desc;
7
```

Output-->

	bid_id	bid_amount	budget
▶	105	5891	3857
	111	5878	2461
	23	5858	3705
	69	5817	3239
	130	5760	512
	39	5682	1932
	13	5674	822

Simple SQL Queries

Find all freelancers who made a bid on a project in the AI category

```
1  -- Find all freelancers who made a bid on a project in the AI category
2
3  •  SELECT DISTINCT freelancers.id, freelancers.name FROM freelancers
4     JOIN bids ON freelancers.id = bids.freelancer_id
5     JOIN projects ON bids.project_id = projects.id
6     WHERE projects.category = 'AI';
7
```

Output-->

	id	name
▶	1	Norma Fisher
	3	Elizabeth Woods
	26	Peter Mcdowell
	50	Caroline Chambers
	11	Sean Green
	18	Bobby Flores
	8	Stephanie Sutton

Simple SQL Queries

Count how many freelancers are from each country

```
1  -- Count how many freelancers are from each country
2
3  • SELECT country, COUNT(*) AS freelancer_count FROM freelancers
4  GROUP BY country
5  ORDER BY freelancer_count DESC;
6  |
```

Output-->

	country	freelancer_count
▶	American Samoa	2
	El Salvador	2
	Saint Vincent and the Grenadines	2
	Azerbaijan	1
	Solomon Islands	1
	Philippines	1
	Cayman Islands	1

Medium SQL Queries

Find the total number of projects posted by each client

```
1  -- Find the total number of projects posted by each client
2
3  • SELECT clients.id, clients.name, COUNT(projects.id) AS total_projects FROM clients
4  JOIN projects ON clients.id = projects.client_id
5  GROUP BY clients.id, clients.name
6  ORDER BY total_projects DESC;
```

Output-->

	id	name	total_projects
▶	3	Veronica Monroe	7
	18	Jeffrey Savage	6
	10	Alison Sloan	4
	11	Ashley Scott	4
	16	Sarah Ali	4
	19	James Carter	4
	20	Devon Morgan	4
	4	Adrian Herring	3
	7	Cheryl Franklin	3

Medium SQL Queries

List the average bid amount for each project

```
1  -- List the average bid amount for each project
2  |
3  • SELECT projects.id, projects.title, AVG(bids.bid_amount) AS average_bid FROM projects
4  JOIN bids ON projects.id = bids.project_id
5  GROUP BY projects.id, projects.title
6  ORDER BY average_bid DESC;
7
```

Output-->

	id	title	average_bid
►	55	Morph Proactive Deliverables	5817.0000
	57	Evolve Next-Generation Mindshare	5636.5000
	30	Leverage End-To-End Action-Items	5616.0000
	60	Re-Contextualize Sticky E-Markets	5477.0000
	53	Seize Intuitive Paradigms	5102.3333
	39	Revolutionize B2C Web-Readiness	4856.5000
	20	Evolve Intuitive E-Commerce	4640.0000

Medium SQL Queries

Show freelancers who have placed more than 5 bids

```
1  -- Show freelancers who have placed more than 5 bids
2
3  • SELECT freelancers.id, freelancers.name, COUNT(bids.id) AS total_bids FROM freelancers
4     JOIN bids ON freelancers.id = bids.freelancer_id
5     GROUP BY freelancers.id, freelancers.name
6     HAVING COUNT(bids.id) > 5
7     ORDER BY total_bids DESC;
8
```

Output-->

Result Grid			
	id	name	total_bids
▶	3	Elizabeth Woods	8
	1	Norma Fisher	6
	42	Alex Woodward	6

Medium SQL Queries

Find the highest bid placed for each project

```
1  -- Find the highest bid placed for each project
2  |
3  • SELECT projects.id, projects.title, MAX(bids.bid_amount) AS highest_bid FROM projects
4  JOIN bids ON projects.id = bids.project_id
5  GROUP BY projects.id, projects.title
6  ORDER BY highest_bid DESC;
7
```

Output-->

	id	title	highest_bid
▶	28	Transition Seamless E-Markets	5891
	57	Evolve Next-Generation Mindshare	5878
	10	Expedite B2C Architectures	5858
	55	Morph Proactive Deliverables	5817
	53	Seize Intuitive Paradigms	5760
	25	Repurpose Clicks-And-Mortar Roi	5682
	8	Facilitate Turn-Key Vortals	5674

Medium SQL Queries

Count the number of freelancers from each country who have at least 1 accepted bid

```
1  -- Count the number of freelancers from each country who have at least 1 accepted bid
2
3  • SELECT freelancers.country, COUNT(DISTINCT freelancers.id) AS total_freelancers FROM freelancers
4     JOIN bids ON freelancers.id = bids.freelancer_id
5     WHERE bids.status = 'Accepted'
6     GROUP BY freelancers.country
7     ORDER BY total_freelancers DESC;
8
```

Output-->

	country	total_freelancers
▶	American Samoa	2
	El Salvador	2
	Aruba	1
	Belgium	1
	British Indian Ocean Territory (Chagos Archipel...	1
	Burkina Faso	1

Hard SQL Queries

Find Freelancers who placed a bid higher than the average bid for the same project

```
1  -- Find Freelancers who placed a bid higher than the average bid for the same project
2  |
3  • SELECT freelancers.id, freelancers.name, bids.project_id, bids.bid_amount
4  FROM freelancers
5  JOIN bids ON freelancers.id = bids.freelancer_id
6  WHERE bids.bid_amount > (
7      SELECT AVG(bids_inner.bid_amount)
8      FROM bids AS bids_inner
9      WHERE bids_inner.project_id = bids.project_id
10 );
```

Output-->

	id	name	project_id	bid_amount
▶	1	Norma Fisher	19	2384
	1	Norma Fisher	38	2780
	1	Norma Fisher	57	5878
	3	Elizabeth Woods	8	5674
	3	Elizabeth Woods	3	5201
	3	Elizabeth Woods	52	5357

Hard SQL Queries

Find Freelancers whose rating is above the average rating of freelancers from the same country and who have completed at least 3 projects

```
4 • SELECT freelancers.id, freelancers.name, freelancers.country, freelancers.rating, COUNT(projects.id) AS completed_projects
5 FROM freelancers
6 JOIN bids ON freelancers.id = bids.freelancer_id
7 JOIN projects ON bids.project_id = projects.id
8 WHERE bids.status = 'Accepted'
9 GROUP BY freelancers.id, freelancers.name, freelancers.country, freelancers.rating
10 HAVING freelancers.rating > (
11     SELECT AVG(rating) FROM freelancers
12     WHERE country = freelancers.country
13 )
14 AND COUNT(projects.id) >= 3;
```

Output-->

	id	name	country	rating	completed_projects
▶	1	Norma Fisher	Seychelles	4.8	3
	20	Michelle Kelley	Ireland	4.9	3
	14	April Snyder	Kenya	4.6	3
	10	Susan Levy	El Salvador	4.4	3

Hard SQL Queries

Find Freelancers whose rating is above the overall average freelancer rating and who have worked with more than 2 different clients

```
SELECT freelancers.id, freelancers.name, freelancers.rating, COUNT(DISTINCT projects.client_id) AS unique_clients
FROM freelancers
JOIN bids ON freelancers.id = bids.freelancer_id
JOIN projects ON bids.project_id = projects.id
WHERE bids.status = 'Accepted'
GROUP BY freelancers.id, freelancers.name, freelancers.rating
HAVING freelancers.rating > (
    SELECT AVG(freelancers.rating) FROM freelancers
)
AND COUNT(DISTINCT projects.client_id) > 2;
```

Output-->

	id	name	rating	unique_clients
▶	1	Norma Fisher	4.8	3
	10	Susan Levy	4.4	3
	14	April Snyder	4.6	3
	20	Michelle Kelley	4.9	3

Key Insights & Observations

- The freelance marketplace recorded around 150 bids, and the acceptance rate of 36–39% shows that the platform is competitive but still healthy.
- The average bid amount is approximately \$3,000, while freelancers maintain high ratings (4.2–5.0), which reflects strong talent quality.
- Freelancers represent more than 45 countries, confirming that the platform has a truly global presence.
- Web Development and AI/Data projects dominate demand, and about 27% of projects have budgets above \$4,000, highlighting a premium market segment.
- A few clients, contribute nearly 20% of the projects, making them highly valuable for the platform.
- Lower bids are more likely to be accepted, while rejected bids tend to be about 10–12% higher.
- Platform activity has remained consistent from 2023 to 2025, and the number of freelancer sign-ups has steadily increased, showing healthy growth.

Recommendations

- The platform should focus on attracting more projects in high-demand categories like Web Development, AI, and Data.
- Freelancers should be encouraged to place competitive but realistic bids since pricing has a strong influence on success.
- The company should build and maintain strong relationships with key clients who post the most projects, as they are critical to platform stability.
- Promoting top-rated freelancers would help improve client trust and increase project acceptance rates.
- Implementing data-driven project matching could connect freelancers with opportunities that align better with their skills and past successes.

**THANK
YOU!**
