PRO APP DATABASE MANAGEMENT

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BUSINESS STORY

Pro App is a newly established sharing economy platform serving both in Australia and Indonesia, and it is currently pursuing Series A funding in Southeast Asia and Australia. The platform offers high-quality, customized online and offline services, allowing local communities to efficiently outsource their daily tasks.

Customer can request tasks with specific requirements, descriptions, and budget indications. These tasks can be on-demand, short-term trusted help from Tradesperson or customized personal projects from Suppliers.

Customer can request short-term trusted help task, which can include variety of tasks like cleaning, plumbing and more. Customer pays task quote fee of Rp25,000 per task request. Tradesperson are grassroot skilled individuals such as electricians, gardeners, plumbers, tutors, cleaners. Tradesperson can access the platform to connect with customers for task requests. They pay a membership fee of Rp10,000, which likely grants them access to potential customers, upskilling, and certification opportunities. Both Customer and Tradesperson pay transaction fee after completing tasks. Tradesperson can bid on task requested by Customer. Both Customer and Tradesperson can rate each other upon task completion or cancellation. Positive ratings and reviews help Tradesperson secure more tasks in the future, incentivizing high-quality work. Customers also need to maintain a positive star rating by avoiding unnecessary task cancellations, which helps them attract top-quality Tradesperson for future projects.

Customer can request Customized personal projects from Suppliers. Customer also pays project quote fee of Rp25,000 per task request. Suppliers including builders, door manufacturers, landscapers and more can also join the platform to reach customers by paying membership fee of Rp100,000. Both Customer and Supplier pay transaction fee after completing project. Supplier also can supply goods necessary for Tradesperson to complete their task.

To ensure high service standards, Pro App collaborates with skills assessment and training providers to grade and upskill Tradesperson. Training providers issue certificates upon successful completion of training or skill assessment. This process provides Customer with transparency and choice when ordering tasks. Tradesperson, who have undergone skills assessments and training and got certificate are more likely to win bids and secure higher-paying tasks.

FINDING ENTITIES:

	Entity	Definition	Justification.
1	Customer	Represents individuals	Customers are essential to the platform's
		who request tasks and	business model as they create the demand for
		projects on the	tasks and projects. They drive the workflow by
		platform.	initiating task requests, allowing Tradesperson
			and Suppliers to offer their services.
2	Tradesperson	Represents grassroot	Tradesperson form the supply side of the
	1	skilled individuals	platform, offering their services to fulfill
		such as electricians,	customer task requests. They benefit from
		gardeners, plumbers,	accessing a large pool of potential customers
		tutors, cleaners and	and upskilling opportunities provided by the
		more.	platform.
3	Task	Refers to on-demand,	Tasks are central to the platform, as they are the
		short-term trusted help	units of work that are outsourced to
		task requested by	Tradesperson. Without tasks, there would be no
		Customer to	interaction between customers, tradespeople, or
		Tradesperson.	the platform.
4	Bid	Represents the offers	Bids facilitate the selection process, allowing
		made by Tradesperson	Tradesperson to compete for task requests
		in response to	based on price, experience, and ratings. This
		customer task	enables customers to choose the best
		requests.	tradesperson for the job while encouraging
			competition among service providers.
5	Project	Refers to customized	Projects extend the platform's functionality to
		personal projects	more complex tasks, allowing customers to
		requested by Customer	request services that involve customized or
		to Suppliers.	larger-scale projects, such as renovations or
6	Cumplion	Companies who offer	landscaping, provided by Suppliers.
6	Supplier	Companies who offer	Suppliers expand the platform's offering by
		customized projects or supply goods for	providing specialized services or goods that support the completion of complex tasks or
		tradespeople to	projects. They play a key role in fulfilling
		complete tasks	customer demands for large-scale or tailored
		complete tasks	services.
7	Supply	Represents the goods	Supplies are necessary for Tradesperson to
′	~~~~	or materials provided	complete certain tasks (e.g., construction
		by suppliers to	materials for a home renovation). The
		Tradesperson to help	relationship between suppliers and tradespeople
		complete a task.	is crucial for ensuring that tasks are completed
		1	efficiently and to a high standard.
8	Provider	Organizations that	Providers ensure the quality of tradespeople by
		provide skill	offering training, certifications, and skill
		assessments and	assessments. This helps maintain high standards

		certifications for Tradesperson.	of service, builds Customer trust, and increases the chances of Tradesperson winning bids and
			securing higher-paying tasks.
9	Membership	The subscription	Membership fees generate revenue for the
		system that allows	platform and grant Tradesperson and Suppliers
		Tradesperson and	access to Customer requests, upskilling
		suppliers to access the	opportunities, and other platform features,
		platform's customers	which help them grow their business and
		and features.	improve service quality.
11	Certificate	Represents the	Certificates provide Tradesperson with
		certifications awarded	credentials that enhance their credibility on the
		to Tradesperson upon	platform. They increase customer trust and give
		completing skill	certified tradespeople a competitive edge in
		assessments or	securing tasks and higher-paying projects.
		training.	

RELATIONSHIPS, CARDINALITIES, AND PARTICIPATION

1. A Customer requests Task:

a. Customer to Task:

One Customer can request multiple Tasks.

Cardinality: Many

A Customer may not have a requested Task.

Participation: Partial

b. Task to Customer:

A Task can be requested by one Customer (Platform's feature to meet individuals' specific needs).

Cardinality: One

Every Task must be associated with a Customer.

Participation: Total

2. A Tradesperson makes Bid:

a. Tradesperson to Bid:

A Tradesperson can make multiple Bids on different Tasks.

Cardinality: Many

A Tradesperson may not make a Bid.

Participation: Partial **b. Bid to Tradesperson:**

A Bid must be made by one Tradesperson.

Cardinality: One

Every Bid must be associated with a Tradesperson.

Participation: Total

3. Tradesperson completes Task:

a. Tradesperson to Task:

One Tradesperson can complete many tasks.

Cardinality: Many

A Tradesperson may not complete any tasks.

Participation: Partial

b. Task to Tradesperson:

A task can be completed by many Tradesperson.

Cardinality: Many

A task may not be completed by a Tradesperson.

Participation: Partial

4. A Task receives Bids:

a. Task to Bid:

One Task can receive multiple Bids from different Tradespeople.

Cardinality: Many

A Task may not receive any Bids.

Participation: Partial

b. Bid to Task:

A Bid must be made for a specific Task.

Cardinality: One

Every Bid must be associated with a Task.

Participation: Total

5. A Customer requests Project:

a. Customer to Project:

A Customer can request multiple Projects.

Cardinality: Many

A Customer may not have a requested Project.

Participation: Partial

b. Project to Customer:

A Project is requested by one Customer. (Platform's feature to meet individuals' specific needs).

Cardinality: One

Every Project must be associated with a Customer.

Participation: Total

6. Supplier completes Project:

a. Supplier to Project:

A supplier can complete multiple Projects.

Cardinality: Many

A supplier may not complete any Projects.

Participation: Partial

b. Project to Supplier:

A project can be completed by many Suppliers.

Cardinality: Many

A project may not be completed by Supplier.

Participation: Total

7. A Supplier provides Supplies:

a. Supplier to Supply:

One Supplier can provide multiple Supplies.

Cardinality: Many

A Supplier may not provide any Supplies.

Participation: Partial

b. Supply to Supplier:

One Supply can be provided by multiple Suppliers.

Cardinality: Many

Every Supply must be associated with a Supplier.

Participation: Total

8. A Tradesperson uses Supplies (for Task):

a. Tradesperson to Supply:

One Tradesperson can use multiple Supplies.

Cardinality: Many

A Tradesperson may not use any Supplies.

Participation: Partial

b. Supply to Tradesperson:

One Supply can be used one Tradesperson.

Cardinality: One

A Supply may not be used by any Tradesperson.

Participation: Partial

9. A Tradesperson have Membership:

c. Tradesperson to Membership:

One Tradesperson can have multiple Membership (Including subscriptions over time like annual subscriptions, different membership levels).

Cardinality: Many

A Tradesperson may or may not have a Membership at any given point.

Participation: Partial

d. Membership to Tradesperson:

One membership can be held by multiple Tradesperson.

Cardinality: Many

Membership may not be held by any Tradesperson.

Participation: Partial

10. A Supplier have Membership:

e. Supplier to Membership:

A Supplier can have multiple Membership

Cardinality: Many

A Supplier may or may not have a Membership at any given point.

Participation: Partial

f. Membership to Supplier:

Each membership is associated with only one Supplier.

Cardinality: One

A membership may not be held by any Supplier.

Participation: Partial

11. A Provider issues Certificates:

a. Provider to Certificate:

A Provider can issue multiple Certificates.

Cardinality: Many

A Provider may not issue a Certificate.

Participation: Partial

b. Certificate to Provider:

Each Certificate is issued by one Provider

Cardinality: One

Every Certificate must be associated with a Provider.

Participation: Total

12. A Tradesperson obtains Certificates:

a. Tradesperson to Certificate:

A Tradesperson can obtain multiple Certificates.

Cardinality: Many

A Tradesperson may not obtain any Certificates.

Participation: Partial

b. Certificate to Tradesperson:

One Certificate can be obtained by multiple Tradespeople.

Cardinality: Many

A Certificate may not be obtained by any Tradesperson.

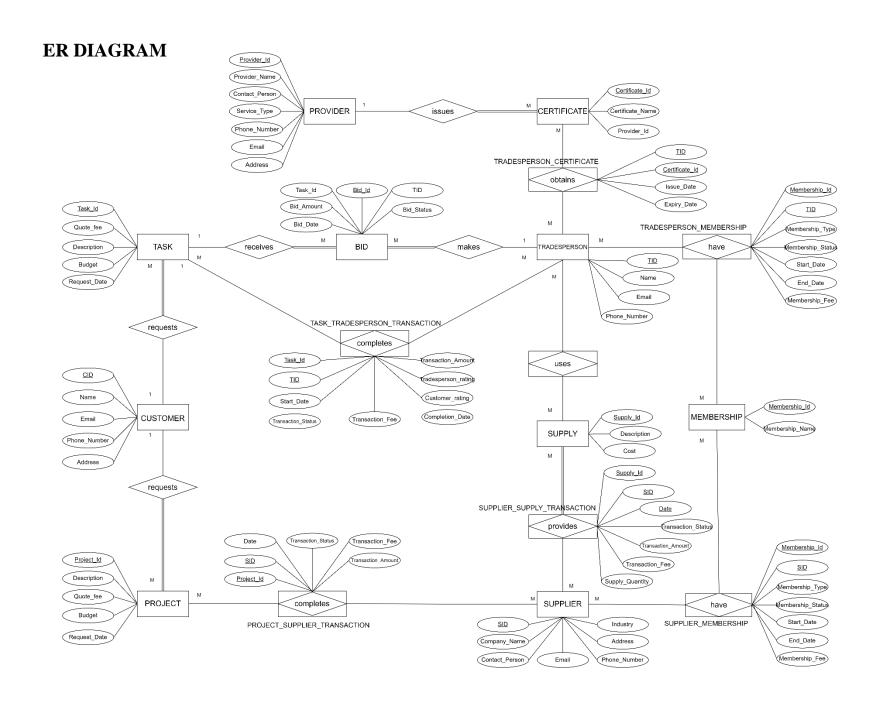
Participation: Partial

DEFINING ATTRIBUTES:

Entity	Attributes	Key
	Customer_Id (CID)	Primary key
	Name	
CUSTOMER	Email	
	Phone_Number	
	Address	
	Tradesperson_Id (TID)	Primary key
	Name	
TRADESPERSON	Email	
	Phone_Number	
	Address	
	Supplier_Id (SID)	Primary key
	Company_Name	
	Contact_Person	
SUPPLIER	Email	
	Phone_Number	
	Address	
	Industry	
	Task_Id	Primary key
	Description	
TASK	Budget	
TASK	Quote_fee (Payment to	
	platform)	
	Request_Date	
	Bid_Id	Primary key
BID	Task_Id	Foreign key from Task
	TID	Foreign key from Tradesperson
(Associative entity between	Bid_Amount	
Tradesperson and Task)	Bid_Date	
	Bid_Status	
	Project_Id	Primary key
	Description	
PROJECT	Quote_fee (Payment to	
	platform)	
	Budget	
	Request_Date	D: 1
CLIDDLY	Supply_Id	Primary key
SUPPLY	Description Cost	
		Duimoury Iray
MEMBERSHIP	Membership_Id	Primary key
	Membership_Name	Duimony leav
DDOMBED	Provider_Id	Primary key
PROVIDER	Provider_Name	
	Contact_Person	

	Email	
	Phone Number	
	Address	
	Service_type (Training,	
	Skill assessment)	
CERTIFICATE	Certificate_Id	Primary key
	Certificate_Name	
	Provider_Id	Foreign key from Provider
ASSOCIATIVE ENTITIES	1	
	Task_Id	Composite key of (Task_Id, TID)
	TID	
	Start_Date	
T. (31) TD DT(3DTD(3))	Completion_Date	
TASK_TRADESPERSON TRANSACTION	Transaction_Status	
TRANSACTION	Transaction_Amount	
	Transaction_Fee	
	Tradesperson_rating	
	Customer_rating	
	Project_Id	Composite key of (Project_Id, SID)
	SID	
PROJECT_SUPPLIER	Date	
TRANSACTION	Transaction_Status	
	Transaction_Amount	
	Transaction_Fee	
	Supply_Id	Composite key of (SID, Supply_Id)
	SID	
	Date	
SUPPLIER_SUPPLY	Transaction_Status	
TRANSACTION	Transaction_Amount	
	Transaction_Fee	
	Supply_Quantity	
	Membership_Id	Composite key of (TID,
	TID	Membership_Id)
	Membership_Fee	
TRADESPERSON_MEMBERSHIP	Start_Date	
	End_Date	
	Membership_Status	
	Membership_Type	
	Membership_Id	Composite key of (SID,
	SID	Membership_Id)
	Membership_Fee	
SUPPLIER_MEMBERSHIP	Start_Date	
	End_Date	
	Membership_Status	
	Membership_Type	
	Jr -	

	TID	Composite key of (TID,
TD A DESDEDSON CEDTIFICATE	Certificate_Id	Certificate_Id)
TRADESPERSON_CERTIFICATE	Issue_Date	
	Expiry_Date	



CREATING DATABASE

1. CUSTOMER

Creating table:

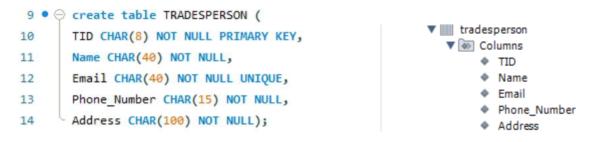
```
SCHEMAS
                                  43
                                                                                                Limit to 500 rows
 Q Filter objects
                                                     create database proapp;
 ▼ 🗐 proapp
                                                    use proapp;
     ▼ Tables
                                            3 • ⊖ create table CUSTOMER (
        CID CHAR(8) NOT NULL PRIMARY KEY,
                                            4
            ▼ S Columns
                   CID
                                                    Name CHAR(40) NOT NULL,
                                            5
                   Name
                                            6
                                                    Email CHAR(40) NOT NULL UNIQUE,
                   Email
                                            7
                                                    Phone Number CHAR(15) NOT NULL,
                   Phone Number
                                                    Address CHAR(100) NOT NULL);
                      Address
                                            8
Inserting dummy data:
       INSERT INTO CUSTOMER (CID, Name, Email, Phone_Number, Address) VALUES
        (10000001, 'Linda Herman', 'ryansmith@hotmail.com', '3566409043', '04535 Roberto Trail Apt. 877\nSouth Scott, GA 26934'),
        (10000002, 'Brandon Allison', 'walkerkatrina@ramirez.com', '3400974744', '162 Michelle Cliffs Apt. 862\nHeatherstad, WV 54429'),
        (10000003, 'Robert Craig', 'jacksonsandra@yahoo.com', '1059367255', '0929 Ryan Pine\nSoliston, KY 31837'),
       (10000004, 'Robert Patterson', 'Icontreras@giles.com', '17735465253', '47526 Williams Hollow\nSouth Jimmyfurt, IL 29543'),
 14
       (10000005, 'Karen Church', 'bwhite@hotmail.com', '0659476927', '901 Moore Trace\nEdwardsville, KS 68523'),
       (10000006, 'Nicole Trujillo', 'fvaughn@vasquez.org', '9336075569', '245 Winters Course\nGillburgh, LA 54037'),
       (10000007, 'Dustin Rogers', 'unorman@hotmail.com', '13593685700', '9137 White Pike Apt. 274\nNorrisfort, RI 27474'),
 17
       (10000008, 'Roger Black', 'craigshawn@barajas-browning.net', '4392453886', '61223 Garcia Glen Suite 992\nWest Peterton, RI 99799'),
 18
       (10000009, 'Carol Day', 'michaelsanford@curry-bowers.info', '4235849688', 'PSC 3492, Box 2652\nAPO AP 06174'),
```

(10000010, 'Zachary Rich', 'agrimes@harper.info', '2404993028', '0367 Hurley Haven Suite 824\nNorth Charlesside, MI 87684'), (10000011, 'Erin Phillips', 'ewaters@hotmail.com', '3744827255', '07479 Cooper Hollow Suite 195\nAveryland, PA 56819'), (10000012, 'Kimberly Fleming', 'wturner@bryant.org', '3990400204', '0788 Michael Stream\nEast Thomasmouth, TX 54510'), (10000013, 'Kristen Dickerson', 'bjones@jenkins.com', '7291196309', '5784 Santiago Fall Apt. 922\nPort Amyport, AL 09353'), (10000014, 'Deborah Sullivan', 'vbaker@wells.com', '1378381950', '90537 Joshua Plain Suite 057\nPort Shawnton, FL 44860'), (10000015, 'Keith Mitchell', 'kimberly30@oliver.com', '6746783547', '6906 Mccarthy Estates\nJuliebury, AR 57220');

	CID	Name	Email	Phone Number	Address
•	10000001	Linda Herman	ryansmith@hotmail.com	3566409043	04535 Roberto Trail Apt. 87
	10000001	Brandon Allison	walkerkatrina@ramirez.com	3400974744	162 Michelle Cliffs Apt. 862
	10000003	Robert Craig	jacksonsandra@yahoo.com	1059367255	0929 Ryan Pine Soliston, KY
	10000004	Robert Patterson	lcontreras@giles.com	17735465253	47526 Williams Hollow South
	10000005	Karen Church	bwhite@hotmail.com	0659476927	901 Moore Trace Edwardsvill
	10000006	Nicole Trujillo	fvaughn@vasquez.org	9336075569	245 Winters Course Gillburg
	10000007	Dustin Rogers	unorman@hotmail.com	13593685700	9137 White Pike Apt. 274 N
	10000008	Roger Black	craigshawn@barajas-browning.net	4392453886	61223 Garcia Glen Suite 992
	10000009	Carol Day	michaelsanford@curry-bowers.info	4235849688	PSC 3492, Box 2652 APO A
	10000010	Zachary Rich	agrimes@harper.info	2404993028	0367 Hurley Haven Suite 82
	10000011	Erin Phillips	ewaters@hotmail.com	3744827255	07479 Cooper Hollow Suite
	10000012	Kimberly Fleming	wturner@bryant.org	3990400204	0788 Michael Stream East T
	10000013	Kristen Dickerson	bjones@jenkins.com	7291196309	5784 Santiago Fall Apt. 922
	10000014	Deborah Sullivan	vbaker@wells.com	1378381950	90537 Joshua Plain Suite 05
	10000015	Keith Mitchell	kimberly30@oliver.com	6746783547	6906 Mccarthy Estates Julie
	NULL	NULL	NULL	NULL	NULL

2. TRADESPERSON

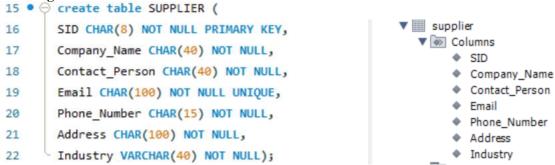
Creating table:



	TID	Name	Email	Phone_Number	Address
١	20000001	John Smith	johnsmith@example.com	1234567890	123 Main St, Springfield, IL
	20000002	Alice Johnson	alicejohnson@example.com	0987654321	456 Elm St, Austin, TX
	20000003	Bob Williams	bobwilliams@example.com	9876543210	789 Oak St, Miami, FL
	20000004	Emily Davis	emilydavis@example.com	6543210987	321 Pine St, Denver, CO
	20000005	Michael Brown	michaelbrown@example.com	3216549870	654 Cedar St, Boston, MA
	20000006	Jessica Wilson	jessicawilson@example.com	8527419630	852 Maple St, Seattle, WA
	20000007	Daniel Moore	danielmoore@example.com	9638527410	951 Birch St, Phoenix, AZ
	20000008	Sophia Taylor	sophiataylor@example.com	7539518520	357 Walnut St, Chicago, IL
	20000009	David Anderson	davidanderson@example.com	1593572840	159 Chestnut St, Dallas, TX
	20000010	Grace Thomas	gracethomas@example.com	7531598426	258 Spruce St, Atlanta, GA
	20000011	Jacob Harris	jacobharris@example.com	8529637410	951 Redwood St, San Fran
	20000012	Isabella Clark	isabellaclark@example.com	9518527416	357 Cypress St, New York,
	20000013	James Lewis	jameslewis@example.com	1597534860	159 Fir St, Los Angeles, CA
	20000014	Olivia Martin	oliviamartin@example.com	7531598642	258 Poplar St, Houston, TX
	20000015	William Lee	williamlee@example.com	8527419635	951 Palm St, Philadelphia, PA
	NULL	NULL	NULL	NULL	NULL

3. SUPPLIER

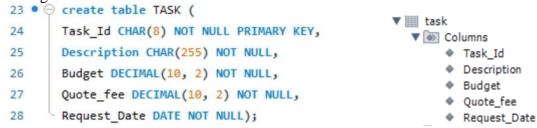
Creating table:



Inserting dummy data:

	SID	Company_Name	Contact_Person	Email	Phone_Number	Address	Industry
•	30000001	Global Supplies	John Doe	johndoe@globalsupplies.com	1234567890	123 Market St, Springfield, IL	Retail
	30000002	Tech Innovators	Alice Smith	alicesmith@techinnovators.com	0987654321	456 Innovation Blvd, Austin, TX	Technology
	30000003	Green Energy Solutions	Bob Johnson	bobjohnson@greenenergy.com	9876543210	789 Solar Way, Miami, FL	Energy
	30000004	Blue Ocean Trading	Emily White	emilywhite@blueoceantrading.com	6543210987	321 Harbor St, Denver, CO	Trading
	30000005	Peak Performance Equipment	Michael Brown	michaelbrown@peakperformance.com	3216549870	654 Mountain Rd, Boston, MA	Manufacturing
	30000006	Urban Builders	Jessica Green	jessicagreen@urbanbuilders.com	8527419630	852 City Ave, Seattle, WA	Construction
	30000007	EcoFriendly Packaging	Daniel Black	danielblack@ecofriendlypackaging.com	9638527410	951 Recycle Ln, Phoenix, AZ	Packaging
	30000008	Smart Home Tech	Sophia Blue	sophiablue@smarthometech.com	7539518520	357 Automation St, Chicago, IL	Technology
	30000009	Clear Water Corp	David Green	davidgreen@clearwater.com	1593572840	159 River Rd, Dallas, TX	Water Treatment
	30000010	Global Foods	Grace King	graceking@globalfoods.com	7531598426	258 Gourmet Ave, Atlanta, GA	Food
	30000011	Prime Electronics	Jacob White	jacobwhite@primeelectronics.com	8529637410	951 Circuit St, San Francisco, CA	Electronics
	30000012	Urban Fashion	Isabella Brown	isabellabrown@urbanfashion.com	9518527416	357 Style St, New York, NY	Fashion
	30000013	Fast Logistics	James Stone	jamesstone@fastlogistics.com	1597534860	159 Cargo Ln, Los Angeles, CA	Logistics
	30000014	Pro Builders	Olivia Green	oliviagreen@probuilders.com	7531598642	258 Contractor Blvd, Houston,	Construction
	30000015	NextGen Materials	William Red	williamred@nextgenmaterials.com	8527419635	951 Industrial St, Philadelphia,	Materials
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

4. TASK



	Task_Id	Description	Budget	Quote_fee	Request_Date
•	40000001	Fix plumbing in the bathroom	3750000.00	25000.00	2024-01-15
	40000002	Install new lighting in the kitchen	7500000.00	25000.00	2024-01-20
	40000003	Paint the living room	4500000.00	25000.00	2024-01-25
	40000004	Build a new deck in the backyard	18000000.00	25000.00	2024-02-01
	40000005	Install security cameras	12000000.00	25000.00	2024-02-10
	40000006	Repair roof leaks	14250000.00	25000.00	2024-02-15
	40000007	Replace kitchen cabinets	22500000.00	25000.00	2024-02-20
	40000008	Tile the bathroom floor	9000000.00	25000.00	2024-02-25
	40000009	Install hardwood flooring in the living room	27000000.00	25000.00	2024-03-01
	40000010	Assemble furniture	3000000.00	25000.00	2024-03-05
	40000011	Fix electrical outlets	2250000.00	25000.00	2024-03-10
	40000012	Install a new fence	15000000.00	25000.00	2024-03-15
	40000013	Repair broken windows	6750000.00	25000.00	2024-03-20
	40000014	Install sprinkler system	13500000.00	25000.00	2024-03-25
	40000015	Landscape the front yard	30000000.00	25000.00	2024-03-30
	NULL	NULL	NULL	NULL	NULL

5. BID

Creating table:

```
105 • ⊖ create table BID (
106
        Bid_Id CHAR(8) NOT NULL PRIMARY KEY,
107
        Task_Id CHAR(8),
                                                                   ▼ III bid
108
        TID CHAR(8),
                                                                      ▼ 🐼 Columns
        Bid_Amount DECIMAL(10, 2) NOT NULL,
109
                                                                          Bid_Id
        Bid Date DATE NOT NULL,
110
                                                                           Task_Id
        Bid_Status CHAR(20) NOT NULL,
111
                                                                           ♦ TID

    Bid_Amount

        FOREIGN KEY (Task_Id) REFERENCES TASK(Task_Id),
112
                                                                           Bid_Date
113
        FOREIGN KEY (TID) REFERENCES TRADESPERSON(TID));

    Bid Status
```

	Bid_Id	Task_Id	TID	Bid_Amount	Bid_Date	Bid_Status
•	50000001	40000001	20000001	3000000.00	2024-01-16	Pending
	50000002	40000002	20000002	6000000.00	2024-01-21	Accepted
	50000003	40000003	20000003	4000000.00	2024-01-26	Rejected
	50000004	40000004	20000004	14000000.00	2024-02-02	Pending
	50000005	40000005	20000005	9000000.00	2024-02-11	Accepted
	50000006	40000006	20000006	10500000.00	2024-02-16	Pending
	50000007	40000007	20000007	17500000.00	2024-02-21	Rejected
	50000008	40000008	20000008	8000000.00	2024-02-26	Pending
	50000009	40000009	20000009	22000000.00	2024-03-02	Accepted
	50000010	40000010	20000010	2500000.00	2024-03-06	Pending
	50000011	40000011	20000011	1800000.00	2024-03-11	Pending
	50000012	40000012	20000012	12500000.00	2024-03-16	Rejected
	50000013	40000013	20000013	5500000.00	2024-03-21	Accepted
	50000014	40000014	20000014	11500000.00	2024-03-26	Pending
	50000015	40000015	20000015	26000000.00	2024-03-31	Accepted
	NULL	NULL	NULL	NULL	NULL	NULL

6. PROJECT

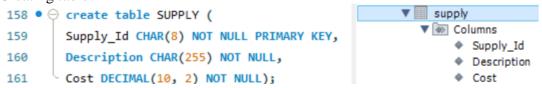
Creating table:

```
133 • ⊖ create table PROJECT (
                                                             ▼ project
        Project_Id CHAR(8) NOT NULL PRIMARY KEY,
134
                                                                ▼ 🐼 Columns
135
        Description CHAR(255) NOT NULL,
                                                                     Project_Id
136
        Quote fee DECIMAL(10, 2) NOT NULL,
                                                                     Description
                                                                       Quote_fee
        Budget DECIMAL(10, 2) NOT NULL,
137
                                                                       Budget
        Request Date DATE NOT NULL);
138
                                                                     Request_Date
```

Inserting dummy data:

	Project_Id	Description	Quote_fee	Budget	Request Date
•	60000001	Renovate kitchen	25000.00	15000000.00	2024-01-10
,	60000002	Build a new garage	25000.00	20000000.00	2024-01-15
	60000003	Install solar panels	25000.00	12000000.00	2024-01-20
	60000004	Remodel bathroom	25000.00	8000000.00	2024-01-25
	60000005	Construct a swimming pool	25000.00	30000000.00	2024-02-01
	60000006	Add a guest house	25000.00	18000000.00	2024-02-05
	60000007	Replace windows throughout the house	25000.00	10000000.00	2024-02-10
	60000008	Build a fence around the property	25000.00	7000000.00	2024-02-15
	60000009	Install smart home system	25000.00	5000000.00	2024-02-20
	60000010	Repaint the exterior of the house	25000.00	4000000.00	2024-02-25
	60000011	Design and landscape the garden	25000.00	15000000.00	2024-03-01
	60000012	Add a second floor to the house	25000.00	25000000.00	2024-03-05
	60000013	Expand the living room	25000.00	12000000.00	2024-03-10
	60000014	Upgrade the plumbing system	25000.00	9000000.00	2024-03-15
	60000015	Install an outdoor kitchen	25000.00	8500000.00	2024-03-20
	NULL	NULL	NULL	NULL	NULL

7. SUPPLY



		<i>J</i>	
	Supply_Id	Description	Cost
•	70000001	Cement Bags (50kg)	50000.00
	70000002	Wood Planks (per piece)	75000.00
	70000003	Electrical Wiring (per meter)	20000.00
	70000004	Roofing Sheets (per piece)	150000.00
	70000005	Bricks (per 100 units)	100000.00
	70000006	PVC Pipes (per meter)	50000.00
	70000007	Tiles (per square meter)	90000.00
	70000008	Glass Windows (per square meter)	300000.00
	70000009	Paint (20L can)	250000.00
	70000010	Nails (per kg)	20000.00
	70000011	Steel Bars (per meter)	120000.00
	70000012	Sand (per cubic meter)	150000.00
	70000013	Gravel (per cubic meter)	180000.00
	70000014	Concrete Mix (per cubic meter)	250000.00
	70000015	Doors (per unit)	350000.00
	NULL	NULL	NULL

8. MEMBERSHIP

Creating table:

	<u> </u>				
	Membership_Id	Membership_Name			
١	80000001	Basic Membership			
	80000002	Standard Membership			
	80000003	Premium Membership			
	80000004	Gold Membership			
	80000005	Platinum Membership			
	80000006	Enterprise Membership			
	80000007	Freelancer Membership Small Business Membership Corporate Membership Non-Profit Membership			
	80000008				
	80000009				
	80000010				
	80000011	Educational Membership			
	80000012	Healthcare Membership			
	80000013	VIP Membership			
	80000014	Exclusive Membership			
	80000015	Partner Membership			
	NULL	NULL			

9. PROVIDER

Creating table:

```
203 • ⊖ create table PROVIDER (
204
        Provider_Id CHAR(8) NOT NULL PRIMARY KEY,
                                                             ▼ provider
                                                                ▼ 🚳 Columns
        Provider_Name CHAR(40) NOT NULL,
205
                                                                     Provider_Id
        Contact Person CHAR(40) NOT NULL,
206
                                                                     Provider Name
        Email CHAR(40) NOT NULL UNIQUE,
207

    Contact_Person

                                                                     Email
        Phone Number CHAR(15) NOT NULL,
208
                                                                     Phone Number
        Address CHAR(100) NOT NULL,
209
                                                                     Address
        Service type CHAR(50) NOT NULL);
210

    Service_type
```

Inserting dummy data:

	0	J					
	Provider_Id	Provider_Name	Contact_Person	Email	Phone_Number	Address	Service_type
•	90000001	SkillUp Training	John Doe	johndoe@skillup.com	1234567890	123 Main St, Springfield, IL	Training
	90000002	Certify Now	Alice Johnson	alicej@certifynow.com	0987654321	456 Elm St, Austin, TX	Skill Assessment
	90000003	Pro Skills Academy	Bob Smith	bobsmith@proskills.com	9876543210	789 Oak St, Miami, FL	Training
	90000004	Elite Certifications	Emily White	emilywhite@elitecert.com	6543210987	321 Pine St, Denver, CO	Skill Assessment
	90000005	Next Level Learning	Michael Brown	michaelbrown@nll.com	3216549870	654 Cedar St, Boston, MA	Training
	90000006	CertPro Services	Jessica Green	jgreen@certpro.com	8527419630	852 Maple St, Seattle, WA	Skill Assessment
	90000007	TechCert Academy	Daniel Moore	danielmoore@techcert.com	9638527410	951 Birch St, Phoenix, AZ	Training
	90000008	Professional Growth	Sophia Taylor	sophiataylor@progrowth.com	7539518520	357 Walnut St, Chicago, IL	Training
	90000009	Assessment Hub	David Anderson	davidanderson@assessmenthub.com	1593572840	159 Chestnut St, Dallas, TX	Skill Assessment
	90000010	SkillCerts	Grace Thomas	gracethomas@skillcerts.com	7531598426	258 Spruce St, Atlanta, GA	Training
	90000011	ProCert	Jacob Harris	jacobharris@procert.com	8529637410	951 Redwood St, San Fran	Skill Assessment
	90000012	Certified Solutions	Isabella Clark	isabelladark@certsolutions.com	9518527416	357 Cypress St, New York,	Training
	90000013	Academy of Skills	James Lewis	jameslewis@academyofskills.com	1597534860	159 Fir St, Los Angeles, CA	Skill Assessment
	90000014	GrowthCert	Olivia Martin	oliviamartin@growthcert.com	7531598642	258 Poplar St, Houston, TX	Training
	90000015	CertMasters	William Lee	williamlee@certmasters.com	8527419635	951 Palm St, Philadelphia, PA	Skill Assessment
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

10. CERTIFICATE

		, -, -, -, -, -, -, -, -, -, -, -, -, -,	
	Certificate_Id	Certificate_Name	Provider_Id
•	110000001	Advanced Plumbing Certification	90000001
	110000002	Electrician Level 1 Certification	90000002
	110000003	HVAC Specialist Certification	90000003
	110000004	Carpentry Master Certification	90000004
	110000005	Certified Home Renovator	90000005
	110000006	Painting & Decorating Certification	90000006
	110000007	Roofing Specialist Certification	90000007
	110000008	Landscaping Professional Certification	90000008
	110000009	Certified Solar Panel Installer	90000009
	110000010	Smart Home Installation Certification	90000010
	110000011	Certified Construction Manager	90000011
	110000012	Interior Design Certification	90000012
	110000013	Certified Masonry Specialist	90000013
	110000014	Waterproofing Specialist Certification	90000014
	110000015	Certified Green Builder	90000015
	NULL	NULL	NULL

11. TASK_TRADESPERSON TRANSACTION

Creating table:

```
254 ● ⊖ create table TASK_TRADESPERSON_TRANSACTION (
255
        Task_Id CHAR(8),
256
        TID CHAR(8),
257
        Start_Date DATE NOT NULL,
                                                                                 ▼ ■ task_tradesperson_transacti
258
        Completion_Date DATE,
                                                                                    ▼ 🐼 Columns
        Transaction_Status CHAR(20) NOT NULL,
                                                                                         Task Id
259
                                                                                         ♦ TID
260
        Transaction_Amount DECIMAL(10, 2) NOT NULL,
                                                                                         Start_Date
        Transaction_Fee DECIMAL(10, 2) NOT NULL,
261
                                                                                         ♦ Completion_Date
        Tradesperson_rating INT CHECK (Tradesperson_rating BETWEEN 1 AND 5),
262
                                                                                         ♦ Transaction_Status
263
        Customer_rating INT CHECK (Customer_rating BETWEEN 1 AND 5),

    Transaction_Amount

        FOREIGN KEY (Task_Id) REFERENCES TASK(Task_Id),
                                                                                         ◆ Transaction_Fee
264
                                                                                         Tradesperson_rating
        FOREIGN KEY (TID) REFERENCES TRADESPERSON(TID),
265

    Customer_rating

        PRIMARY KEY (Task Id, TID));
```

LIIL	crung	aummy	aata.						
	Task_Id	TID	Start_Date	Completion_Date	Transaction_Status	Transaction_Amount	Transaction_Fee	Tradesperson_rating	Customer_rating
•	40000001	20000001	2024-01-16	2024-01-20	Completed	3500000.00	1750.00	5	4
	40000002	20000002	2024-01-21	2024-01-25	Completed	8000000.00	4000.00	4	5
	40000003	20000003	2024-01-26	2024-01-30	Completed	5000000.00	2500.00	5	5
	40000004	20000004	2024-02-02	2024-02-06	Completed	15000000.00	7500.00	4	4
	40000005	20000005	2024-02-11	2024-02-15	Completed	10000000.00	5000.00	3	4
	40000006	20000006	2024-02-16	2024-02-20	Pending	12000000.00	6000.00	NULL	NULL
	40000007	20000007	2024-02-21	2024-02-25	Pending	18000000.00	9000.00	NULL	NULL
	40000008	20000008	2024-02-26	2024-03-01	Completed	9000000.00	4500.00	5	5
	40000009	20000009	2024-03-02	2024-03-06	Completed	23000000.00	11500.00	4	4
	40000010	20000010	2024-03-06	2024-03-10	Completed	3500000.00	1750.00	4	5
	40000011	20000011	2024-03-11	2024-03-15	Pending	2000000.00	1000.00	NULL	NULL
	40000012	20000012	2024-03-16	2024-03-20	Completed	13000000.00	6500.00	5	4
	40000013	20000013	2024-03-21	2024-03-25	Completed	6000000.00	3000.00	4	5
	40000014	20000014	2024-03-26	2024-03-30	Completed	12500000.00	6250.00	5	5
	40000015	20000015	2024-03-31	2024-04-04	Pending	27000000.00	13500.00	NULL	NULL
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

12. PROJECT SUPPLIER TRANSACTION

Creating table:

```
create table PROJECT_SUPPLIER_TRANSACTION (
286
287
         Project_Id CHAR(8),
288
        SID CHAR(8),
289
        Date DATE NOT NULL,
        Transaction Status CHAR(20) NOT NULL,
290
                                                                        ▼ 🚳 Columns
291
        Transaction_Amount DECIMAL(10, 2) NOT NULL,
                                                                             Project_Id
292
        Transaction_Fee DECIMAL(10, 2) NOT NULL,
                                                                             SID
                                                                             Date
         FOREIGN KEY (Project Id) REFERENCES PROJECT(Project Id),
293

    Transaction_Status

         FOREIGN KEY (SID) REFERENCES SUPPLIER(SID),
294

    Transaction Amount

        PRIMARY KEY (Project Id, SID));
295
                                                                             Transaction Fee
```

Inserting dummy data:

	Project_Id	SID	Date	Transaction_Status	Transaction_Amount	Transaction_Fee
•	60000001	30000001	2024-01-10	Completed	15000000.00	7500.00
	60000002	30000002	2024-01-15	Completed	20000000.00	10000.00
	60000003	30000003	2024-01-20	Pending	12000000.00	6000.00
	60000004	30000004	2024-01-25	Completed	8000000.00	4000.00
	60000005	30000005	2024-02-01	Completed	30000000.00	15000.00
	60000006	30000006	2024-02-05	Pending	18000000.00	9000.00
	60000007	30000007	2024-02-10	Completed	10000000.00	5000.00
	60000008	30000008	2024-02-15	Pending	7000000.00	3500.00
	60000009	30000009	2024-02-20	Completed	5000000.00	2500.00
	60000010	30000010	2024-02-25	Completed	4000000.00	2000.00
	60000011	30000011	2024-03-01	Completed	15000000.00	7500.00
	60000012	30000012	2024-03-05	Completed	25000000.00	12500.00
	60000013	30000013	2024-03-10	Pending	12000000.00	6000.00
	60000014	30000014	2024-03-15	Completed	9000000.00	4500.00
	60000015	30000015	2024-03-20	Pending	8500000.00	4250.00
	NULL	NULL	NULL	NULL	NULL	NULL

13. SUPPLIER SUPPLY TRANSACTION

```
315 • Greate table SUPPLIER_SUPPLY_TRANSACTION (
        Supply Id CHAR(8),
316
        SID CHAR(8),
317
318
        Date DATE NOT NULL,
                                                                  supplier_supply_transaction
319
        Transaction Status CHAR(20) NOT NULL,
                                                                     ▼ S Columns
        Transaction_Amount DECIMAL(10, 2) NOT NULL,
320
                                                                           Supply_Id
        Transaction_Fee DECIMAL(10, 2) NOT NULL,
                                                                           SID
321
                                                                           Date
322
        Supply_Quantity INT NOT NULL,

    Transaction_Status

        FOREIGN KEY (Supply_Id) REFERENCES SUPPLY(Supply_Id),
323
                                                                           Transaction_Amount
        FOREIGN KEY (SID) REFERENCES SUPPLIER(SID),
324

    Transaction Fee

325
        PRIMARY KEY (SID, Supply Id));

    Supply_Quantity
```

	Supply_Id	SID	Date	Transaction_Status	Transaction_Amount	Transaction_Fee	Supply_Quantity
•	70000001	30000001	2024-01-05	Completed	500000.00	250.00	10
	70000002	30000002	2024-01-10	Completed	750000.00	375.00	10
	70000003	30000003	2024-01-15	Pending	400000.00	200.00	20
	70000004	30000004	2024-01-20	Completed	1500000.00	750.00	10
	70000005	30000005	2024-01-25	Completed	1000000.00	500.00	10
	70000006	30000006	2024-02-01	Pending	500000.00	250.00	5
	70000007	30000007	2024-02-05	Completed	900000.00	450.00	10
	70000008	30000008	2024-02-10	Pending	3000000.00	1500.00	20
	70000009	30000009	2024-02-15	Completed	2500000.00	1250.00	10
	70000010	30000010	2024-02-20	Completed	200000.00	100.00	2
	70000011	30000011	2024-02-25	Completed	1200000.00	600.00	10
	70000012	30000012	2024-03-01	Completed	1500000.00	750.00	12
	70000013	30000013	2024-03-05	Pending	1800000.00	900.00	15
	70000014	30000014	2024-03-10	Completed	2500000.00	1250.00	10
	70000015	30000015	2024-03-15	Pending	3500000.00	1750.00	20
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

14. TRADESPERSON MEMBERSHIP

Creating table:

```
345 ● ☐ create table TRADESPERSON_MEMBERSHIP (
        Membership_Id CHAR(8),
346
347
        TID CHAR(8),
348
        Membership_Fee DECIMAL(10, 2) NOT NULL,
        Start_Date DATE NOT NULL,
                                                                             ▼ I tradesperson_membership
349
                                                                                ▼ S Columns
350
        End Date DATE,
                                                                                    Membership_Id
351
        Membership_Status CHAR(20) NOT NULL,
                                                                                    ♦ TID
        Membership_Type CHAR(50) NOT NULL,
352
                                                                                    Membership_Fee
                                                                                    Start_Date
        FOREIGN KEY (TID) REFERENCES TRADESPERSON(TID),
353
                                                                                    End_Date
        FOREIGN KEY (Membership_Id) REFERENCES MEMBERSHIP(Membership_Id),
354

    Membership_Status

        PRIMARY KEY (TID, Membership_Id));
355
                                                                                    Membership_Type
```

inscriniz dum	iii gaata	•				
Membership_Id	TID	Membership_Fee	Start_Date	End_Date	Membership_Status	Membership_Type
80000001	20000001	100000.00	2024-01-01	2024-12-31	Active	Basic Membership
80000002	20000002	150000.00	2024-02-01	2025-01-31	Active	Standard Membership
80000003	20000003	200000.00	2024-03-01	2025-02-28	Active	Premium Membership
80000004	20000004	250000.00	2024-04-01	2025-03-31	Active	Gold Membership
80000005	20000005	300000.00	2024-05-01	2025-04-30	Active	Platinum Membership
80000006	20000006	350000.00	2024-06-01	2025-05-31	Pending	Enterprise Membership
80000007	20000007	120000.00	2024-07-01	2025-06-30	Active	Freelancer Membership
80000008	20000008	180000.00	2024-08-01	2025-07-31	Pending	Small Business Membership
80000009	20000009	220000.00	2024-09-01	2025-08-31	Active	Corporate Membership
80000010	20000010	270000.00	2024-10-01	2025-09-30	Pending	Non-Profit Membership
80000011	20000011	100000.00	2024-01-15	2025-01-14	Active	Educational Membership
80000012	20000012	150000.00	2024-02-15	2025-02-14	Active	Healthcare Membership
80000013	20000013	200000.00	2024-03-15	2025-03-14	Pending	VIP Membership
80000014	20000014	250000.00	2024-04-15	2025-04-14	Active	Exclusive Membership
80000015	20000015	300000.00	2024-05-15	2025-05-14	Active	Partner Membership
NULL	NULL	NULL	NULL	NULL	NULL	NULL

15. SUPPLIER MEMBERSHIP

Creating table:

```
create table SUPPLIER_MEMBERSHIP (
375 •
376
        Membership_Id CHAR(8),
377
        SID CHAR(8),
        Membership_Fee DECIMAL(10, 2) NOT NULL,
378
        Start_Date DATE NOT NULL,
                                                                             ▼ supplier membership
379
                                                                                ▼ S Columns
        End Date DATE,
380
                                                                                     Membership Id
        Membership Status CHAR(20) NOT NULL,
381
                                                                                     ♦ SID
382
        Membership Type CHAR(50) NOT NULL,
                                                                                     Membership Fee

    Start Date

383
        FOREIGN KEY (SID) REFERENCES SUPPLIER(SID),
                                                                                     End Date
        FOREIGN KEY (Membership_Id) REFERENCES MEMBERSHIP(Membership_Id),
384
                                                                                     Membership_Status
        PRIMARY KEY (SID, Membership_Id));
385
                                                                                     Membership_Type
```

Inserting dummy data:

		,					
	Membership_Id	SID	Membership_Fee	Start_Date	End_Date	Membership_Status	Membership_Type
•	80000001	30000001	200000.00	2024-01-01	2024-12-31	Active	Basic Membership
	80000002	30000002	300000.00	2024-02-01	2025-01-31	Active	Standard Membership
	80000003	30000003	400000.00	2024-03-01	2025-02-28	Active	Premium Membership
	80000004	30000004	500000.00	2024-04-01	2025-03-31	Active	Gold Membership
	80000005	30000005	600000.00	2024-05-01	2025-04-30	Active	Platinum Membership
	80000006	30000006	250000.00	2024-06-01	2025-05-31	Pending	Enterprise Membership
	80000007	30000007	220000.00	2024-07-01	2025-06-30	Active	Freelancer Membership
	80000008	30000008	350000.00	2024-08-01	2025-07-31	Pending	Small Business Membership
	80000009	30000009	450000.00	2024-09-01	2025-08-31	Active	Corporate Membership
	80000010	30000010	300000.00	2024-10-01	2025-09-30	Pending	Non-Profit Membership
	80000011	30000011	280000.00	2024-01-15	2025-01-14	Active	Educational Membership
	80000012	30000012	340000.00	2024-02-15	2025-02-14	Active	Healthcare Membership
	80000013	30000013	360000.00	2024-03-15	2025-03-14	Pending	VIP Membership
	80000014	30000014	500000.00	2024-04-15	2025-04-14	Active	Exclusive Membership
	80000015	30000015	550000.00	2024-05-15	2025-05-14	Active	Partner Membership
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

16. TRADESPERSON_CERTIFICATE

```
405 • ⊖ create table TRADESPERSON_CERTIFICATE (
        TID CHAR(8),
        Certificate Id CHAR(9),
408
        Issue Date DATE NOT NULL,
                                                                                  ▼ I tradesperson_certificate
409
        Expiry_Date DATE,
                                                                                      ▼ 🔊 Columns
        FOREIGN KEY (TID) REFERENCES TRADESPERSON(TID),
410

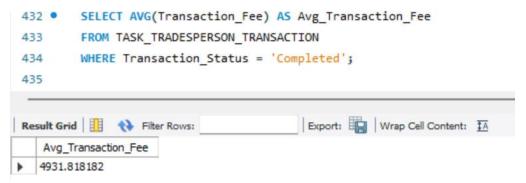
◆ TID

411
        FOREIGN KEY (Certificate_Id) REFERENCES CERTIFICATE(Certificate_Id),
                                                                                           Certificate_Id
412
        PRIMARY KEY (TID, Certificate_Id));
                                                                                           Issue_Date
                                                                                           Expiry_Date
413
```

		J		
	TID	Certificate_Id	Issue_Date	Expiry_Date
•	20000001	110000001	2024-01-01	2026-01-01
	20000002	110000002	2024-02-01	2026-02-01
	20000003	110000003	2024-03-01	2026-03-01
	20000004	110000004	2024-04-01	2026-04-01
	20000005	110000005	2024-05-01	2026-05-01
	20000006	110000006	2024-06-01	2026-06-01
	20000007	110000007	2024-07-01	2026-07-01
	20000008	110000008	2024-08-01	2026-08-01
	20000009	110000009	2024-09-01	2026-09-01
	20000010	110000010	2024-10-01	2026-10-01
	20000011	110000011	2024-11-01	2026-11-01
	20000012	110000012	2024-12-01	2026-12-01
	20000013	110000013	2024-01-15	2026-01-15
	20000014	110000014	2024-02-15	2026-02-15
	20000015	110000015	2024-03-15	2026-03-15
	NULL	NULL	NULL	NULL

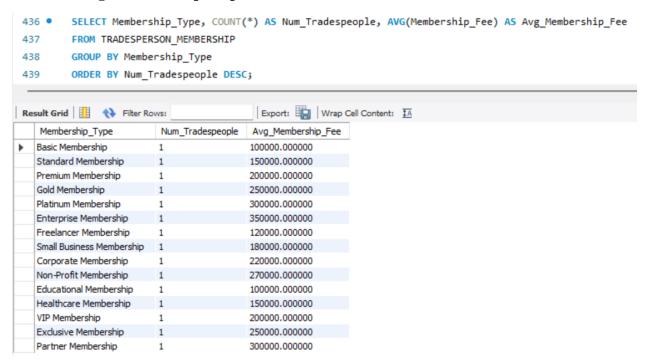
BUSINESS QUESTION QUERY

1. What is the average transaction fee per completed task?



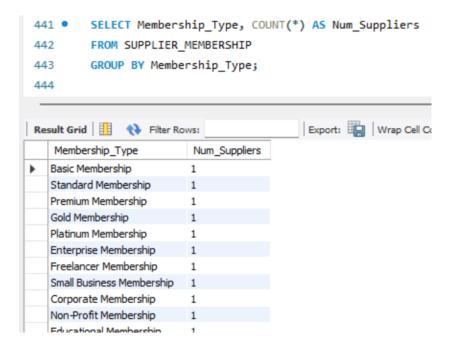
This query shows the average transaction fee for completed tasks, which helps understand the cost customers incur per transaction. The COO can review transaction fee structures and consider offering discounts or reducing the percentage fee for high-frequency customers to encourage more engagement.

2. Which membership type is most popular among tradespeople, and what is the average membership fee paid?



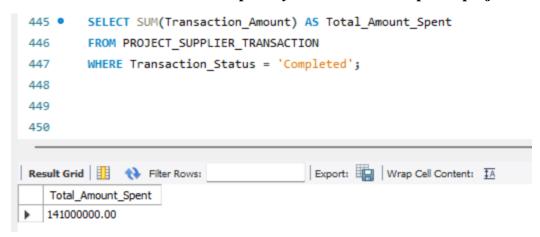
This query identifies the most popular membership types and the average fee paid by tradespeople. The COO can consider bundling discounts or additional benefits for the most popular membership types, or encourage tradespeople to upgrade to higher-tier memberships by highlighting benefits.

3. How many suppliers are enrolled in each membership type?



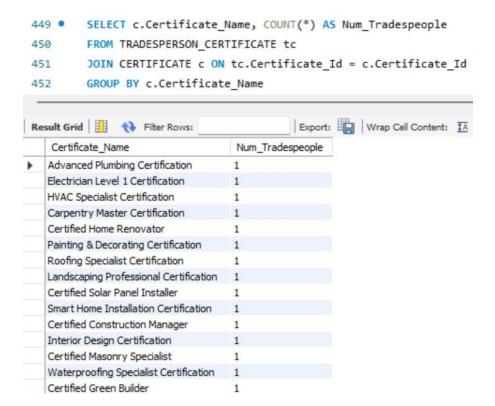
This shows how many suppliers are using each membership type, which can indicate where most of the revenue is being generated from supplier memberships. The COO could consider adjusting membership pricing for less popular membership tiers or offer promotional rates to increase enrollment.

4. What is the total amount spent by customers on completed projects?



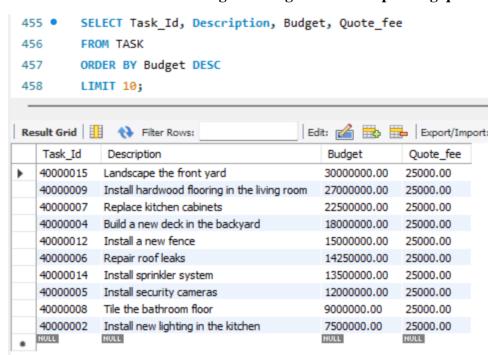
This shows the total expenditure of customers on completed projects, providing an understanding of customer spending behavior. The COO could explore ways to streamline supplier costs to reduce the total project cost for customers, thus making the platform more attractive.

5. How many tradespeople have obtained certifications, and which certification is the most common?



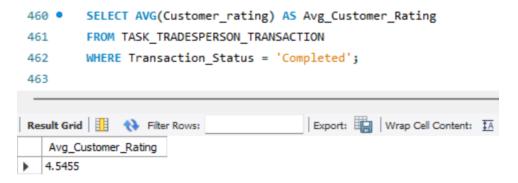
This shows how many tradespeople have obtained certifications and identifies the most common certifications. The COO could promote certification programs for tradespeople by offering reduced certification costs or bundling certification with memberships, enhancing their qualifications and improving service quality.

6. Which tasks have the highest budget and corresponding quote fees?



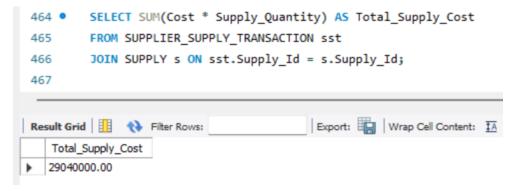
This query returns the top 10 tasks with the highest budgets and corresponding quote fees, helping understand customer spending on high-budget tasks. The COO could consider offering promotions or package deals for customers frequently requesting high-budget tasks to incentivize further engagement.

7. What is the customer satisfaction rating based on completed tasks?



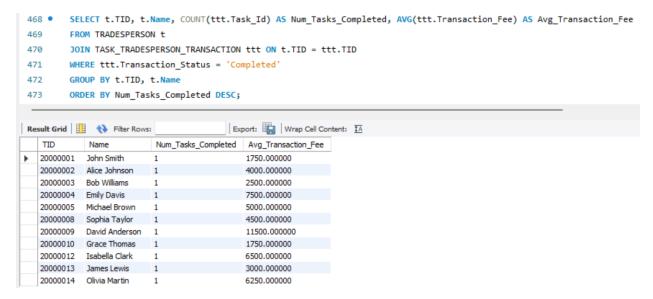
This gives the average customer satisfaction rating based on completed tasks, helping assess the quality of services provided. The COO should monitor this rating closely. If customer satisfaction is lower than desired, consider implementing quality improvement programs or offering training for tradespeople.

8. What are the total costs incurred by suppliers for all supplies provided?



This provides the total cost incurred by suppliers for all supplies used in tasks and projects. The COO can work with suppliers to negotiate bulk pricing or reduce supply chain costs, which can then be passed on to customers as cost savings.

9. Which tradespeople have completed the most tasks, and what is their average transaction fee?



This shows which tradespeople are completing the most tasks and what their average transaction fee is. The COO can create an incentive program for top-performing tradespeople or offer discounts on membership renewals to encourage continued platform engagement.

10. How many tasks and projects are requested but still pending completion?



This provides the number of pending tasks and projects, showing the volume of work still in progress. The COO can investigate bottlenecks in task or project completion and explore ways to improve turnaround time, possibly by incentivizing quicker task completion or improving communication between customers and tradespeople/suppliers.

Conclusion

These queries offer a range of insights related to membership popularity, transaction fees, customer satisfaction, certification programs, and supply costs. Each insight can help the COO identify areas for cost reduction, improve efficiency, and enhance customer satisfaction as part of the new customer cost reduction strategy.