Project : Collaborative farming   
  
this is web based platform where we have to create an bridge between the company and the non professional farmers and also the there are service provider are available on the platform to gives the services to the all farmers . basically its concept to give the land on lease or on rental basis to the company or professional farmers  
and also we share the multiple government scheme to the with the farmers on this platform

Schemas:

Database:

ColabDB

Tables:

**1. User Table (Stores all types of users)**

* **id** (Primary Key)
* name / company\_name
* contact
* email
* address
* password
* type\_of\_user ('admin', 'farmer', 'company', 'service\_provider')
* Create\_date

**2. Property Table (Stores farmer's land details)**

* **property\_id** (Primary Key)
* **farmer\_id** (Foreign Key → User(id))
* location
* type\_of\_land (**Irrigated Land**, Rainfed Land)
* land\_image
* document\_image
* area\_acre
* area\_guntha
* Create\_date

**3. Service Table (Stores service provider details)**

* **service\_id** (Primary Key)
* **service\_provider\_id** (Foreign Key → User(id))
* service\_name
* price
* duration (per acre)
* description
* Create\_date

**4. Agreement Table (Tracks agreements for services and properties)**

* **agreement\_id** (Primary Key)
* **user\_id** (Foreign Key → User(id))
* type ('service', 'property')
* **reference\_id** (Foreign Key → Service(service\_id) OR Property(property\_id))
* status ('accepted', 'pending', 'rejected', 'completed')
* start\_date
* end\_date
* time\_duration (If service → work duration, If property → lease duration)
* create\_date

**5. Payment Table**

* **payment\_id** (Primary Key)
* **agreement\_id** (Foreign Key → Agreement(agreement\_id))
* **amount\_paid (** Total amount paid)
* payment\_method ('UPI', 'Credit Card', 'Debit Card', 'Net Banking')
* payment\_mode ('Online', 'Offline')
* payment\_status ('Paid', 'Pending', 'Failed')
* **transaction\_id**
* Recived\_date

**6. Government Schemes Table (Stores farming-related schemes added by admin)**

* **scheme\_id** (Primary Key)
* **farmer\_id** (Foreign Key → User(id))
* title
* price
* start\_date
* last\_date
* description
* Created\_date

Different Scenarios to Fetch the Data:

1. How many farmers are applying for the government schemes
2. How many farmers have not apply for the any scheme
3. Farmer got the multiple schemes
4. Which farmers got most money by government schemes
5. How many farmers register properties
6. How many farmers registers more than 5 properties
7. How many farmers are registered but not add any property
8. How many farmers have area more than 10 acre
9. How many farmers have less than 2 acres
10. How many farmers register the irrigated land or rainfed land
11. How many farmers have registered land land long days ago
12. How many farmers how many lands are
13. How many users are applying for the service
14. How many users apply for the property
15. How many users apply for service filter farmer or company
16. How many properties are not got applied
17. How many services are not got applied
18. How many services compare to the same service have minimum price
19. How many properties are agreement by one company
20. How many companies are interested in irrigated properties
21. How many companies are interested in the rainfed properties
22. How many farmers are not accepting any application within the year
23. How many services provider not active means not accept the agreement from long time
24. how many users rejected multiple time
25. how many users complete the most agreement
26. how many users have most agreement
27. how many users have accepted all the agreements
28. which agreement have pending or accept status
29. which agreement have cash mode
30. which agreement have upi payments
31. which user pays most amount