**Azure PostgreSQL Schema Design**

### **1. Beneficiary Details Table**

This table captures all the necessary details of the beneficiary.

| **Column Name** | **Data Type** | **Constraints** | **Description** |
| --- | --- | --- | --- |
| beneficiary\_id | SERIAL | PRIMARY KEY | Unique ID for each beneficiary |
| beneficiary\_name | VARCHAR(100) | NOT NULL | Name of the beneficiary |
| account\_number | VARCHAR(20) | NOT NULL | Unique account number |
| organization | VARCHAR(100) | NULL | Organization name |
| department | VARCHAR(100) | NULL | Department name |
| street\_name | VARCHAR(150) | NULL | Street address |
| building\_number | VARCHAR(20) | NULL | Building number |
| building\_name | VARCHAR(100) | NULL | Building name |
| floor | VARCHAR(10) | NULL | Floor number |
| po\_box | VARCHAR(20) | NULL | PO Box number |
| room | VARCHAR(20) | NULL | Room number |
| postal\_code | VARCHAR(20) | NULL | Postal/Zip Code |
| city\_town | VARCHAR(100) | NOT NULL | City/Town |
| town\_location | VARCHAR(100) | NULL | Town Location |
| district | VARCHAR(100) | NULL | District |
| state\_province | VARCHAR(100) | NULL | State/Province |
| country | VARCHAR(100) | NOT NULL | Country |
| record\_status | VARCHAR(10) | CHECK (record\_status IN ('Archived', 'Draft', 'Complete')) | Status of the record |

### **2. Beneficiary Bank Details Table**

This table stores information about the beneficiary's bank.

| **Column Name** | **Data Type** | **Constraints** | **Description** |
| --- | --- | --- | --- |
| bank\_id | SERIAL | PRIMARY KEY | Unique ID for each bank record |
| beneficiary\_id | INT | FOREIGN KEY REFERENCES Beneficiary(beneficiary\_id) ON DELETE CASCADE | Links to beneficiary |
| bank\_identifier | VARCHAR(50) | NOT NULL | Bank identifier (SWIFT, ABA, etc.) |
| bank\_name | VARCHAR(100) | NOT NULL | Name of the bank |
| department | VARCHAR(100) | NULL | Department name |
| sub\_department | VARCHAR(100) | NULL | Sub-department name |
| street\_name | VARCHAR(150) | NULL | Street address |
| building\_number | VARCHAR(20) | NULL | Building number |
| building\_name | VARCHAR(100) | NULL | Building name |
| floor | VARCHAR(10) | NULL | Floor number |
| po\_box | VARCHAR(20) | NULL | PO Box number |
| room | VARCHAR(20) | NULL | Room number |
| post\_code | VARCHAR(20) | NULL | Postal/Zip Code |
| city\_town | VARCHAR(100) | NOT NULL | City/Town |
| town\_location | VARCHAR(100) | NULL | Town Location |
| district\_name | VARCHAR(100) | NULL | District Name |
| state\_province | VARCHAR(100) | NULL | State/Province |
| country | VARCHAR(100) | NOT NULL | Country |
| record\_status | VARCHAR(10) | CHECK (record\_status IN ('Archived', 'Draft', 'Complete')) | Status of the record |

This schema ensures proper data integrity and supports draft functionality, completion, and archival. Let me know if further refinements are needed!