



[REDACTED] Inc.



[REDACTED] Inc.

[illegible]



[REDACTED] Inc.

Target Clients

- Legal entities who need to redact sensitive information from legal documents.
- Businesses that need to comply with privacy laws (e.g., GDPR, HIPAA).
- Individuals who want to anonymize personal information in images or documents before sharing.

Services Offered

- Text redaction in documents.
- Image redaction (e.g., blurring faces, license plates).
- Custom redactions based on client specifications.

Key Processes

- Document submission by clients.
- Redaction processing based on client instructions.
- Review and approval of redacted materials by clients.
- Invoicing and payments based on redaction projects.



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CLIENTS(ID (PK), Name, Email, Phone)

DOCUMENTS(ID (PK), ClientID (FK), DocumentType, SubmissionDate)

REDACTIONS(ID (PK), DocumentID (FK), RedactionType, Description, Status)

REVIEWS(ID (PK), DocumentID (FK), ReviewDate, ApprovalStatus)

INVOICES(ID (PK), ClientID (FK), InvoiceDate, TotalAmount, DueDate, PaymentStatus)

INVOICEITEMS(ID (PK), InvoiceID (FK), Description, Amount, Quantity)

PAYMENTS(ID (PK), InvoiceID (FK), PaymentDate, Amount, PaymentMethod)

CLIENT_DOCUMENTS

CLIENTS.ID -> DOCUMENTS.ClientID

Cardinality: One CLIENTS can have many DOCUMENTS

DOCUMENT_REDACTIONS

DOCUMENTS.ID -> REDACTIONS.DocumentID

Cardinality: One DOCUMENT can have many REDACTIONS

DOCUMENT_REVIEWS

DOCUMENTS.ID -> REVIEWS.DocumentID

Cardinality: One DOCUMENT can have many REVIEWS

CLIENT_INVOICES

CLIENTS.ID -> INVOICES.ClientID

Cardinality: One CLIENTS can have many INVOICES

INVOICE_INVOICEITEMS

INVOICES.ID -> INVOICEITEMS.InvoiceID

Cardinality: One INVOICES can have many INVOICEITEMS

INVOICE_PAYMENTS

INVOICES.ID -> PAYMENTS.InvoiceID

Cardinality: One INVOICES can have many PAYMENTS



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CLIENTS(ID (PK), Name, Email, Phone)

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INVOICEITEMS(ID (PK), InvoiceID (FK), Description, Amount, Quantity)

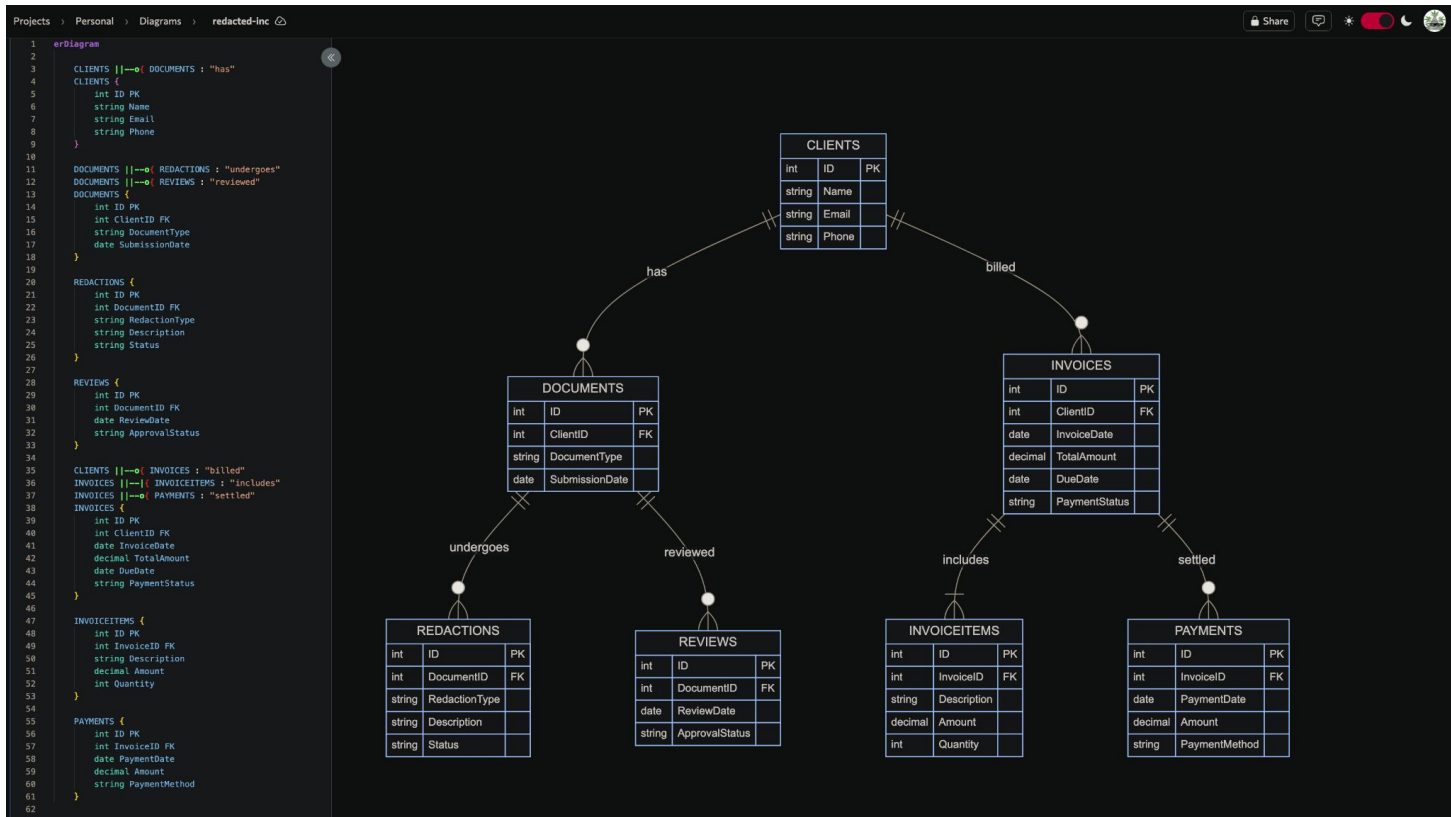
FD1: ID -> InvoiceID, Description, Amount, Quantity

PAYMENTS(ID (PK), InvoiceID (FK), PaymentDate, Amount, PaymentMethod)

FD1: ID -> InvoiceID, PaymentDate, Amount, PaymentMethod



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PAYMENTS(ID (PK), InvoiceID (FK), PaymentDate, Amount, PaymentMethod)

CLIENTS and DOCUMENTS:

Relationship: "has"

Cardinality: One CLIENT can have zero or many DOCUMENTS. Each DOCUMENT is associated with exactly one CLIENT.

Participation: Optional for DOCUMENTS and Mandatory for CLIENTS.

DOCUMENTS and REDACTIONS:

Relationship: "undergoes"

Cardinality: One DOCUMENT can have zero or many REDACTIONS. Each REDACTION is associated with exactly one DOCUMENT.

Participation: Optional for REDACTIONS and Mandatory for DOCUMENTS.

DOCUMENTS and REVIEWS:

Relationship: "reviewed"

Cardinality: One DOCUMENT can be reviewed zero or many times. Each REVIEW is associated with exactly one DOCUMENT.

Participation: Optional for REVIEWS and Mandatory for DOCUMENTS.

CLIENTS and INVOICES:

Relationship: "billed"

Cardinality: One CLIENT can have zero or many INVOICES. Each INVOICE is associated with exactly one CLIENT.

Participation: Optional for INVOICES and Mandatory for CLIENTS.

INVOICES and INVOICEITEMS:

Relationship: "includes"

Cardinality: One INVOICE can include one or many INVOICEITEMS. Each INVOICEITEM is associated with exactly one INVOICE.

Participation: Mandatory for both INVOICES and INVOICEITEMS.

INVOICES and PAYMENTS:

Relationship: "settled"

Cardinality: One INVOICE can be settled by zero or many PAYMENTS. Each PAYMENT is associated with exactly one INVOICE.

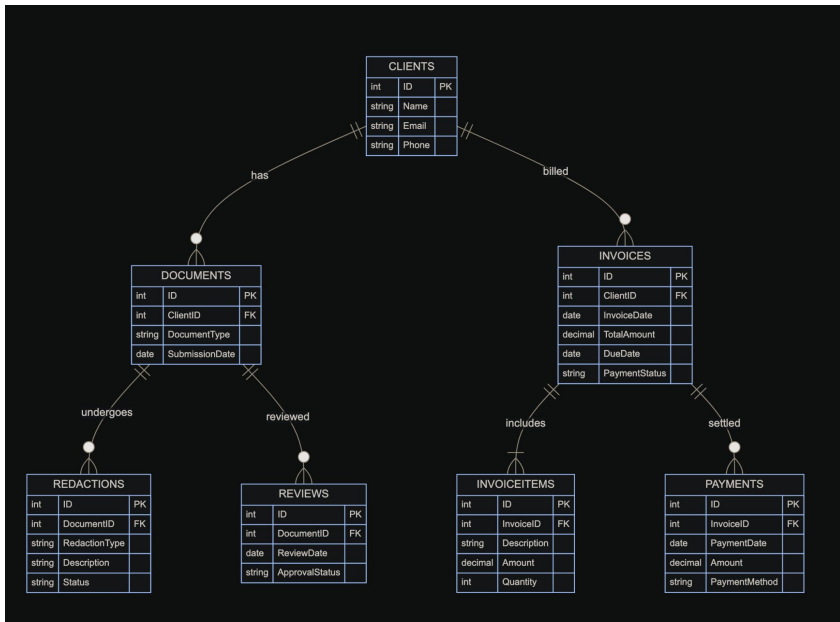
Participation: Optional for PAYMENTS and Mandatory for INVOICES.



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1NF

1. Every attribute is atomic. There are no repeating groups or arrays.
2. All entries in a column are of the same data type.
3. Each column has a unique name.
4. The order in which data is stored does not affect the database's integrity.



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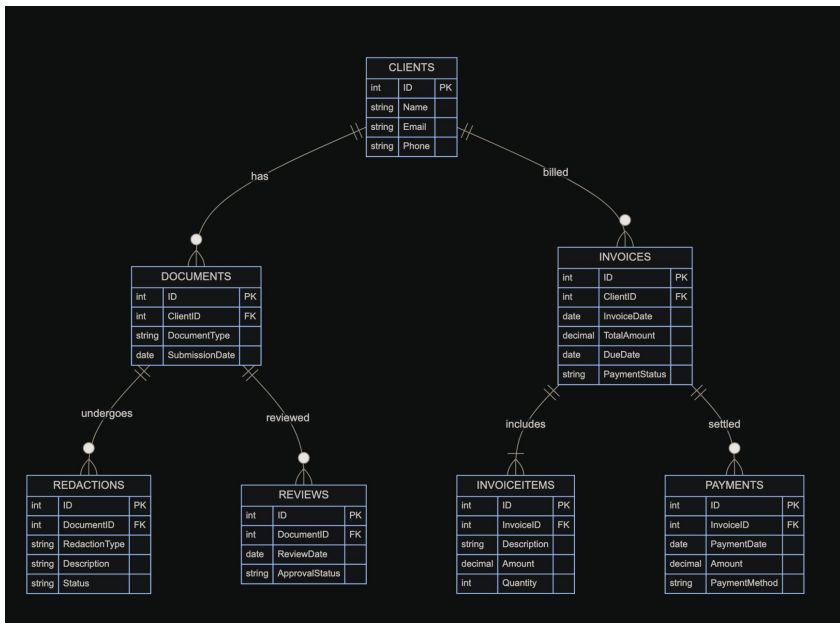
FD1: ID -> InvoiceID, PaymentDate, Amount, PaymentMethod



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2NF

1. It is in **1NF**.
2. All non-key attributes are fully functionally dependent on the primary key.



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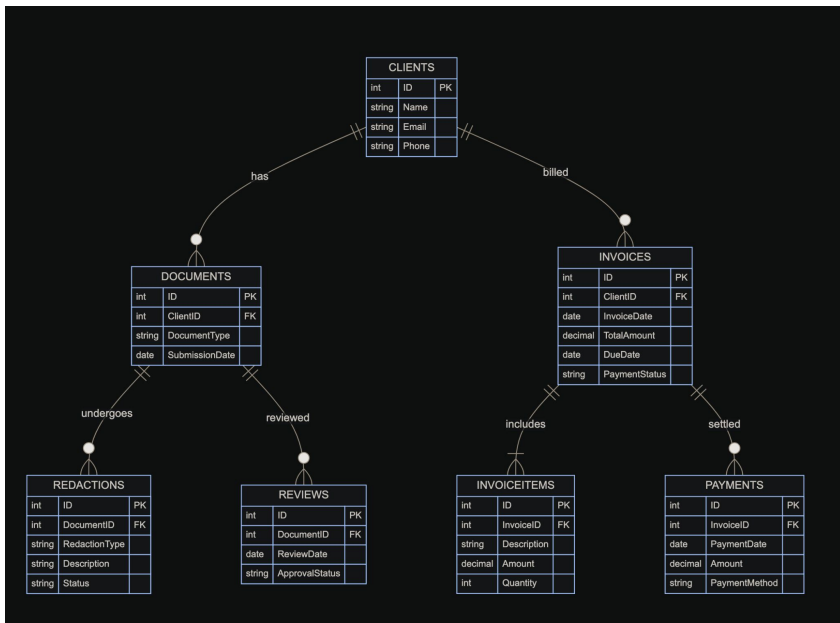
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3NF

1. It is in **2NF**.
2. It has no transitive dependencies.



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FD1: ID -> ClientID, DocumentType, SubmissionDate

REDACTIONS(ID (PK), DocumentID (FK), RedactionType, Description, Status)

FD1: ID -> DocumentID, RedactionType, Description, Status

REVIEWS(ID (PK), DocumentID (FK), ReviewDate, ApprovalStatus)

FD1: ID -> DocumentID, ReviewDate, ApprovalStatus

INVOICES(ID (PK), ClientID (FK), InvoiceDate, TotalAmount, DueDate, PaymentStatus)

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INVOICEITEMS(ID (PK), InvoiceID (FK), Description, Amount, Quantity)

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PAYMENTS(ID (PK), InvoiceID (FK), PaymentDate, Amount, PaymentMethod)

FD1: ID -> InvoiceID, PaymentDate, Amount, PaymentMethod



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FD1: ID -> ClientID, DocumentType, SubmissionDate

REDACTIONS(ID (PK), DocumentID (FK), RedactionType, Description, Status)

FD1: ID -> DocumentID, RedactionType, Description, Status

REVIEWS(ID (PK), DocumentID (FK), ReviewDate, ApprovalStatus)

FD1: ID -> DocumentID, ReviewDate, ApprovalStatus

INVOICES(ID (PK), ClientID (FK), InvoiceDate, TotalAmount, DueDate, PaymentStatus)

FD1: ID -> ClientID, InvoiceDate, TotalAmount, DueDate, PaymentStatus

INVOICEITEMS(ID (PK), InvoiceID (FK), Description, Amount, Quantity)

FD1: ID -> InvoiceID, Description, Amount, Quantity

PAYMENTS(ID (PK), InvoiceID (FK), PaymentDate, Amount, PaymentMethod)

FD1: ID -> InvoiceID, PaymentDate, Amount, PaymentMethod



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Redaction Projects

Google Cloud msds-demos

Search (/) for resources, docs, products, and

Explorer + ADD

Type to search

msds-demos

- Queries
- Shared queries
- client-invoice-amounts
- document-review-status
- invoice-payments
- overdue-invoices
- pending-invoices
- redaction-requests

redacted_inc

- clients
- documents
- invoiceitems
- invoices
- payments
- redactions
- reviews

SHOW MORE

redaction-requests

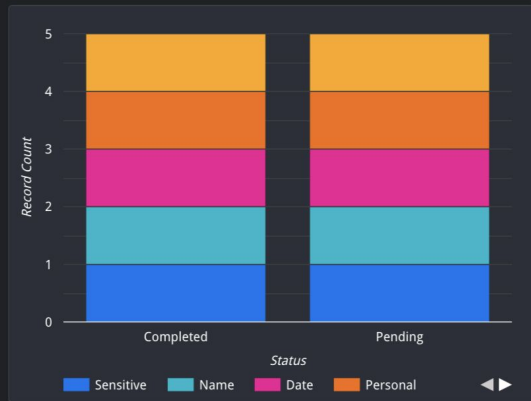
```
1 SELECT
2   Document.DocumentType,
3   Redaction.RedactionType,
4   Redaction.Description,
5   Redaction.Status
6 FROM
7   "msds-demos.redacted_inc.documents" Document
8 JOIN
9   "msds-demos.redacted_inc.redactions" Redaction
10 ON
11   Document.ID = Redaction.DocumentID;
```

Query results

Row	DocumentType	RedactionType
1	Physics Paper	Name
2	Research Notes	Date
3	Mathematics Paper	Location
4	Political Treatise	Sensitive
5	Art Sketches	Personal
6	Novel Manuscript	Personal
7	Philosophy Essay	Sensitive
8	Music Scores	Name
9	Computing Algorithm	Date
10	Biology Paper	Location

DocumentType	RedactionType	Status
Political Treatise	Sensitive	Pending
Research Notes	Date	Pending
Novel Manuscript	Personal	Pending
Music Scores	Name	Pending
Biology Paper	Location	Pending
Mathematics Paper	Location	Completed
Physics Paper	Name	Completed
Art Sketches	Personal	Completed
Computing Algorithm	Date	Completed
Philosophy Essay	Sensitive	Completed

Redact locations mentioned	Completed
Redact sensitive political opini...	Pending
Remove personal notes	Completed
Remove dedication page	Pending
Redact philosophical stances	Completed
Remove dedications	Pending
Redact publication date	Completed
Redact geographic details	Pending





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Thank you!

<https://github.com/g33k5z/redacted-inc>