

BAYOR Cloud & AI Solutions

AI-powered cloud solutions that integrate with real business systems

A clear view of the company, the founder and the first MVP product

Featured MVP: SAGASQL



Agenda

Three-part story: company context, first MVP, and how we can work together

1 Company & Founder

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2 Featured MVP: SAGASQL

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Company & Founder

Who we are ? What we offer ? Why Cloud + AI integration matters ?

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Cloud & AI
Solutions

About Mohamed Bayor

Founder of BAYOR Cloud & AI Solutions, Cloud + AI architect, Senior Engineer, Product Builder

✓ 17+ years software engineering

Java, backend systems, APIs, databases, integrations, enterprise architecture patterns, multiple industries

★ Founder + product builder

Built and started: HALIBOTS (Hub for Applied Learning in Robotics), JAPO (Java Annotation Repo), Open-source projects (Froporec and JISEL)

🔗 Architecture leadership

Move from idea to scope, architecture, roadmap, prototype, delivery plan

➔ Integration mindset

Years integrating systems across databases, APIs, workflows, security controls, now extended with AI capabilities

☁️ Cloud + AI focus

AI Agentic workflows, LLM integration, Serverless patterns, secure cloud-native AI design



Founder, BAYOR Cloud & AI Solutions



Ontario-registered sole proprietorship, started lean with plans to grow and incorporate as a Cloud + AI solutions company

What we offer



Cloud & AI Architecture

Practical cloud-native designs using AI, APIs, data systems, workflows



Modern App Integration

Connect AI capabilities to existing systems, not standalone chatbot demos



MVP Leadership

Scope, design, and guide secure proof-of-concepts that can become products



Custom AI Solutions

Internal copilots, reporting helpers, automations, agentic workflows



Cloud-Native Engineering

Serverless, queues, APIs, containers, observability, scalable backends



Technical Advisory

Use-case review, architecture blueprint, risk reduction, delivery planning

AI ideas are easy. Safe integration is hard

Companies need more than an AI chatbot

1 Existing systems are complex

Databases, APIs, legacy workflows, security rules, and cloud services already exist

2 AI alone is not enough

A model response needs orchestration, validation, guardrails, status tracking, and auditability

3 Architecture creates value

We connect AI to real systems with controlled, cloud-ready workflows

AI idea → cloud-ready design → working MVP → production path



Featured MVP: SAGASQL

Schema-Driven Agentic SQL Generation
with cloud validation and future reporting UI

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SAGASQL

(pronounced 'Saga Sequel')

Schema-Driven Agentic SQL Generation

A API-first integration

P
I Designed for client apps, internal tools and workflows

S SQL from business questions

Q
L Natural language + DDL schema + Optional test data → database-specific SQL.
Initial support: PostgreSQL, MySQL and SQL Server. More planned over time.

Cloud validation

Recreate schema, load test data, run SQL query in sandbox, return evidence

Configurable per client

Model mode, test data volume/source, pagination, and deployment model

Future advanced UI & Reporting tool

Saved requests, workflow history, IDE plugin integration for developers, user-friendly reporting with charts, tables, exports, dashboards,...

Best fit for organizations with relational data, reporting pressure, strict data/privacy needs

Not just: generate SQL faster

Really: generate SQL safely, validate it in a sandbox, explain it and give humans confidence before use

1 SaaS & product teams

Complex customer, usage, billing, or product schemas

2 BI / data teams

Too many ad hoc SQL and reporting requests

3 Ops, finance & support

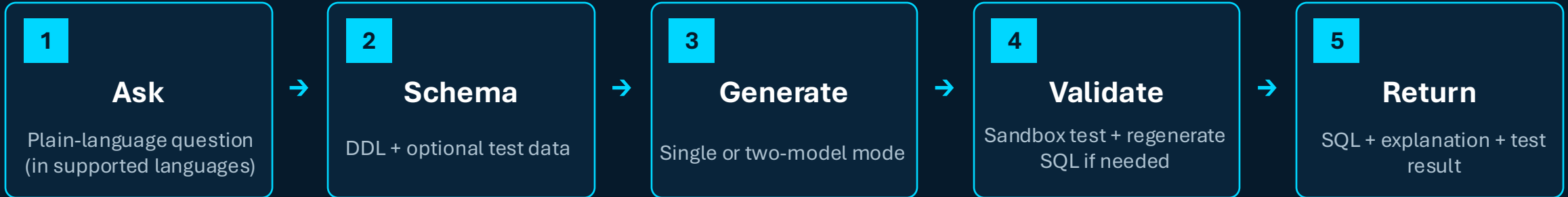
Need faster answers without manual query writing

4 Engineering teams

AI SQL assistance without exposing production data

Ideal pilot: one real schema, 3–5 repeated business questions, validation evidence, human review before production use

Five clear steps



Agentic feel: status tracking, comparison, validation, retries when needed, human control

Client chooses: speed or confidence

No lock-in to one AI provider or one mode

Single-model mode

Faster response and lower cost.
Best for simple questions, demos, low-risk analysis.

**If outputs match:
execute once and report agreement**

Two-model mode

Higher confidence.
Two independent SQL candidates are compared, validated and tested before return.

**If outputs differ:
test both safely and return the best validated result**

Safe SQL generation, not blind execution

Validation happens before SQL is returned or used in production

1 Schema-first input

Use DDL metadata. Production data does not need to leave the client environment

2 Test data choices

Generate 10, 100, 1000+ rows per table, or let clients upload their own test data per table

3 SQL guardrails

Block destructive SQL, validate tables, columns, joins, dialect and allowed query scope

4 Sandbox execution

Recreate schema, load test data, run SQL safely with timeouts, limits, paginated results

5 Human review evidence

Return SQL, explanation, test status, sample results, errors, attempts, confidence signal

DDL/schema → sandbox DB + test data → SQL validation → evidence → human approval

API-first now. Advanced UI later.

SAGASQL — New Request

API-first MVP request setup

1 Business question

Show customers with unpaid invoices over 30 days

2 Schema input (DDL)

```
CREATE TABLE customers (...);
CREATE TABLE invoices (...);
CREATE TABLE payments (...);
FOREIGN KEY customer_id ...
```

3 Execution options

AI mode Single model | Two-model confider

Test data rows 10 / 100 / 1000+ per table

Test data source Generated or client-uploaded CSV

Pagination Default: 10 records per page

SQL scope Read-only SELECT for MVP

Start Workflow

Request setup

SAGASQL — Workflow Status

Live orchestration from request to validated SQL

wf_9A72C1

- Request received DONE
- Schema recreated in sandbox DONE
- Test data loaded DONE
- SQL candidates generated DONE
- Comparison + guardrails DONE
- **Sandbox execution** RUNNING
- Regenerate SQL if needed READY
- Final result PENDING

Status details: 100 rows/table loaded | two-model mode | SQL differs → both candidates are being tested safely

Workflow status

SAGASQL — Validated SQL Result

Final SQL with sandbox evidence

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Final SQL

```
SELECT c.customer_name, i.invoice_id,
       i.balance_due, i.due_date
FROM customers c
JOIN invoices i ON i.customer_id = c.customer_id
WHERE i.status = 'UNPAID'
AND i.due_date < CURRENT_DATE - INTERVAL '30 days'
ORDER BY i.due_date ASC;
```

Test evidence

Status SUCCESS

Rows returned 116

Page size 10

Execution time 420 ms

Decision Ready for review

Preview results (sandbox test data)

customer_name	invoice_id	balance_due	due_date
Acme Supplies	INV-1008	\$1,240.00	2025-04-04
Northwind Labs	INV-1011	\$870.00	2025-04-07
Blue Sky Labs	INV-1052	\$5,430.00	2025-04-13

Validated result

Mockup screens: form input, workflow progress to final SQL result with sandbox evidence

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Planned MVP timeline



Target: demo-ready MVP pilot in 8–10 weeks

Built to prove the product, the service model and the Cloud + AI architecture approach



Engagement & Next Steps

How companies can work with us beyond this first MVP

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Flexible ways to work together

A Product pilot

Use SAGASQL with selected users, schemas, validation settings

B Custom solution

Build a similar AI workflow for a client's internal product or process

C Architecture advisory

Review ideas, design the architecture, define MVP scope, guide delivery

No early fixed-price lock-in.

Scope depends on company size, integrations, security, cloud provider, model usage, data volume, timeline.

One MVP. Many reusable patterns.

1 **Internal AI assistants**
Knowledge + APIs + workflows

2 **Document automation**
Extract + validate + route

3 **Reporting copilots**
Natural-language insights

4 **Workflow automation**
Queues + retries + approvals

5 **Cloud modernization**
Serverless + containers + managed
DBs

6 **Developer enablement**
AI coding workflows + MCP
integration + tooling



Let's turn your AI idea into a cloud-ready solution

Architecture design • MVP leadership • cloud integration • custom AI solutions



Contact

Website: bayorcloudai.ca
Company: BAYOR Cloud & AI Solutions
(Business Apps for Your ORganization – Cloud & AI Solutions)



Company status

Registered in Canada as a sole proprietorship
(BIN: 1001594101, operated by: Mohamed Ashraf Bayor).
Started lean, with plans to grow.