

Database Performance Monitoring Report

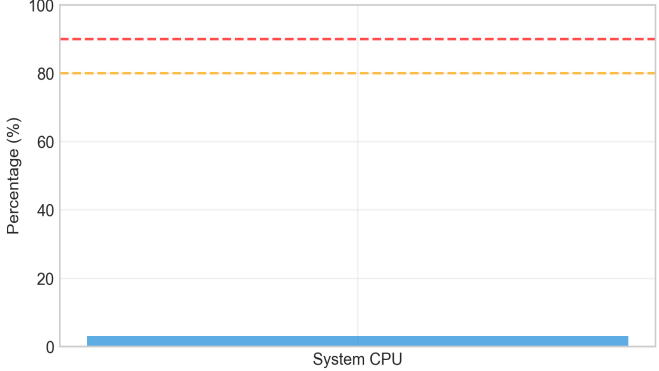
Generated on: September 02, 2025 at 15:48
DB: bank
Host: localhost:5432
User: postgres

Executive Summary

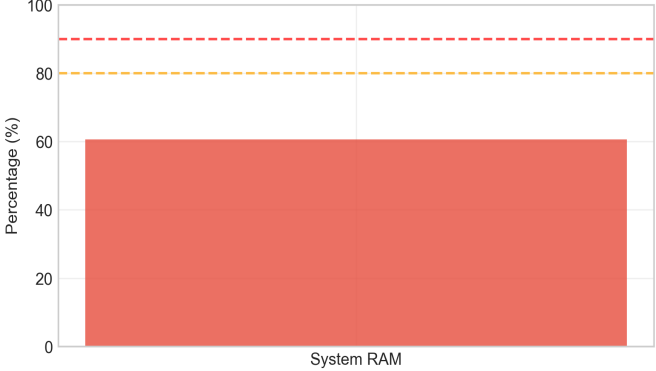
Metric	Current Value	Status
System CPU Usage	3.1%	GOOD
System RAM Usage	60.6%	GOOD
PostgreSQL Connections	5	GOOD
Cache Hit Ratio	84.3%	WARNING
Slow Queries	6 queries	WARNING

System Performance

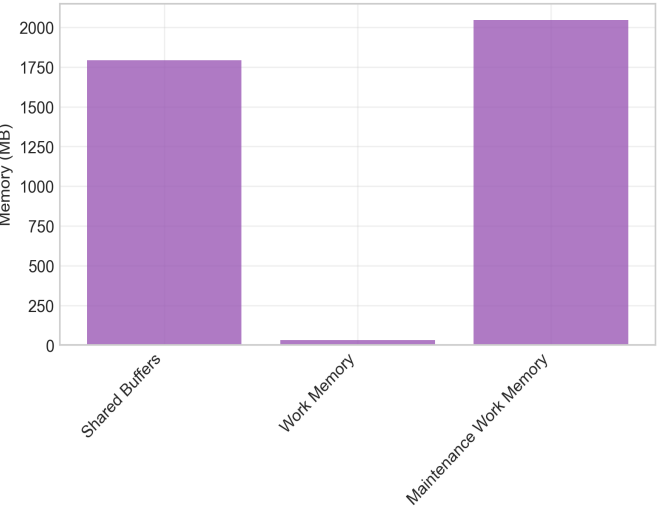
System CPU Usage



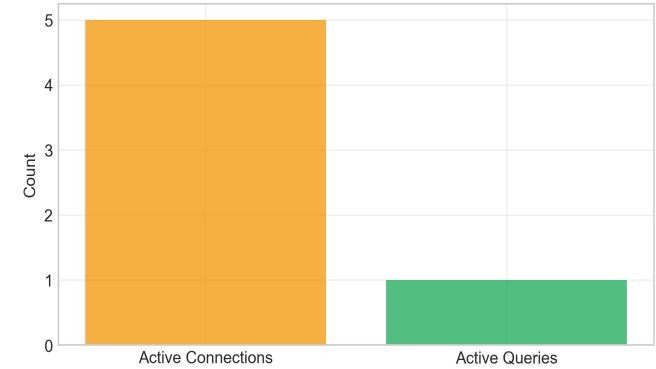
System RAM Usage



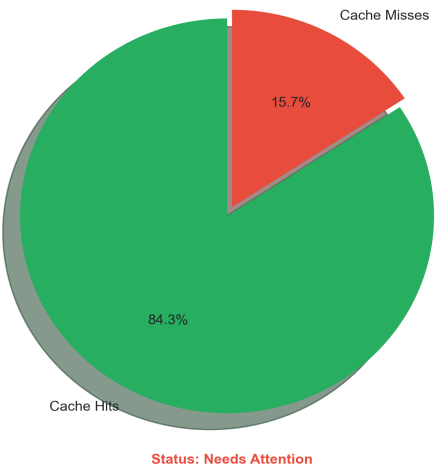
PostgreSQL Memory Configuration



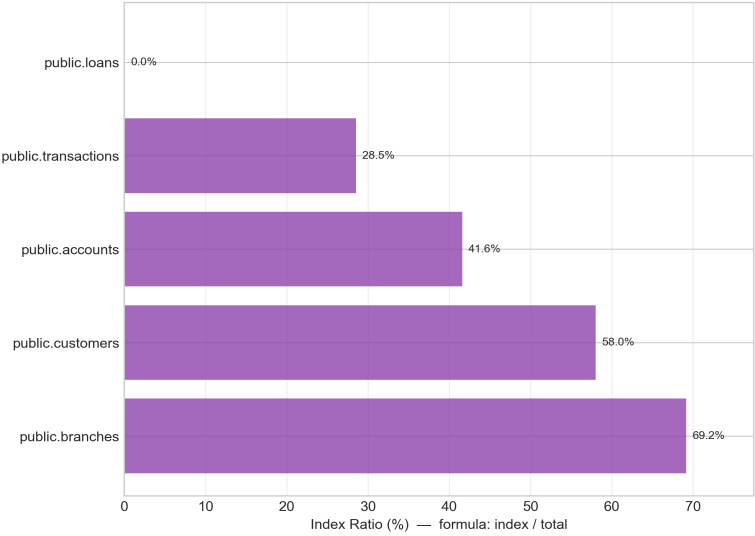
PostgreSQL Activity

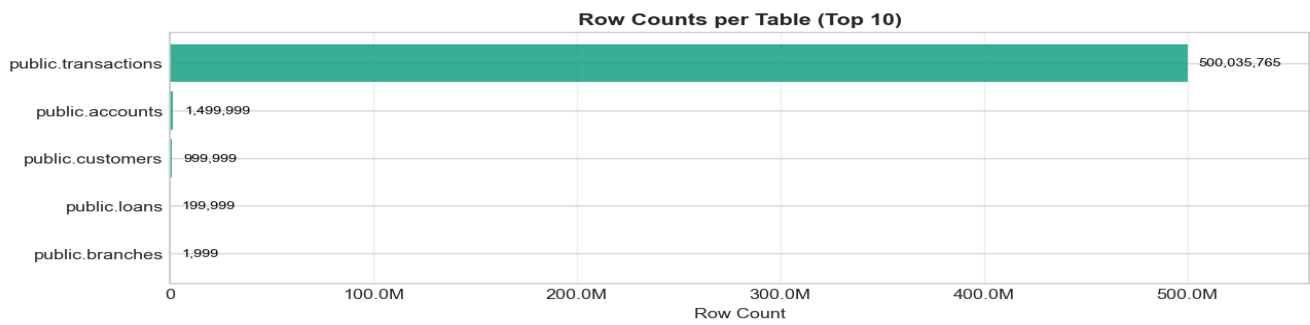
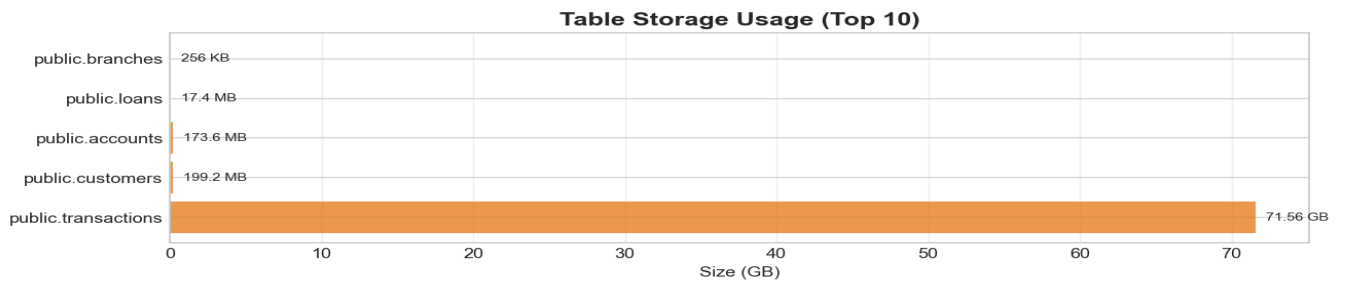
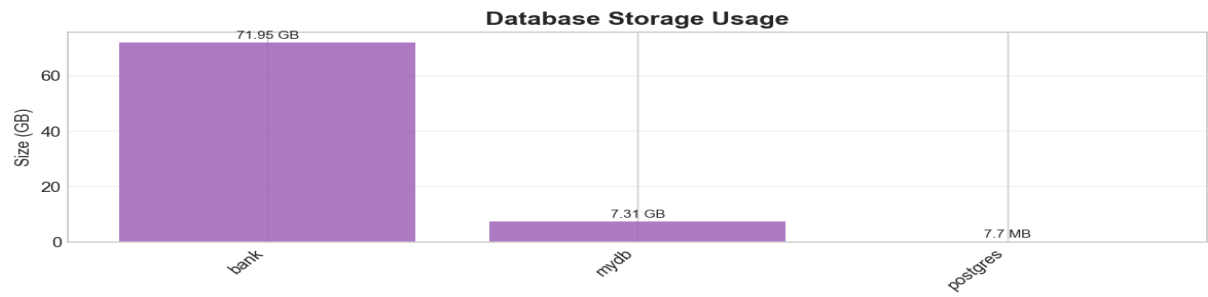


Total Cache Hit Ratio



Index vs Heap Usage Ratio (Top 10 Tables)





Database Performance

Slow query threshold: 600 ms

Long Running Queries

Query	Total Time	Avg Time	Calls
SELECT count(*) FROM transactions	1.14m	1.14m	1
explain analyze SELECT count(*) FROM transactions	1.33m	26.59s	3
explain analyze SELECT count(*) FROM transactions;	1.33m	26.59s	3
VACUUM ANALYZE	19.94s	9.97s	2
ANALYZE	8.22s	8.22s	1
ANALYZE transactions	6.10s	6.10s	1

Most Frequent Queries

Query	Calls	Total Time	Avg Time/Call
BEGIN	8127	13.93ms	0.00ms
COMMIT	8125	9.02ms	0.00ms
SELECT t.transaction_id, t.from_account_id, t.to_account_id, t.amount, t.transaction_type, t.date_issued FROM transactions t WHERE t.from_account_id = \$1 OR t.to_account_id = \$2 ORDER BY t.date_issued DESC LIMIT \$3	3148	6.67m	127.14ms
SELECT a.account_id, a.balance, a.account_status, a.account_type, c.first_name, c.last_name FROM accounts a JOIN customers c ON a.customer_id = c.customer_id WHERE a.account_id = \$1	3148	2.32s	0.74ms
SELECT a.account_id, a.balance, a.account_status, a.account_type FROM accounts a WHERE a.customer_id = \$1	2292	1.33s	0.58ms
SELECT l.loan_id, l.loan_amount, b.branch_name, b.branch_location FROM loans l JOIN branches b ON l.branch_id = b.branch_id WHERE l.customer_id = \$1	2292	4.16m	108.89ms
SELECT balance FROM accounts WHERE account_id = \$1	1590	770.03ms	0.48ms
INSERT INTO transactions(transaction_type, from_account_id, to_account_id, amount, transaction_medium) VALUES(\$1, \$2, \$3, \$4, \$5)	1590	27.42s	17.29ms
UPDATE accounts SET balance = balance - \$1 WHERE account_id = \$2	1590	1.86s	1.17ms

Query	Calls	Total Time	Avg Time/Call
UPDATE accounts SET balance = balance + \$1 WHERE account_id = \$2	1590	1.06s	0.66ms

Replication Status: No replication data available

Detailed Storage Analysis

Database Storage

Database	Size
bank	71.95 GB
mydb	7.31 GB
postgres	7.7 MB

Table Storage (Top 15)

Schema.Table	Total Size	Table Size	Index Size	Row Count (approx)
public.transactions	71.56 GB	47.87 GB	23.69 GB	500,035,765
public.customers	199.2 MB	103.8 MB	95.4 MB	999,999
public.accounts	173.6 MB	115.3 MB	58.3 MB	1,499,999
public.loans	17.4 MB	13.0 MB	4.3 MB	199,999
public.branches	256 KB	160 KB	96 KB	1,999

Index Storage (Top 15)

Schema.Index	Table	Size	Scans	Status
public.transactions_tmp_pkey	transactions	10 GB	0	UNUSED
public.idx_transactions_to	transactions	3434 MB	3148	INEFFICIENT
public.idx_transactions_from	transactions	3433 MB	3148	INEFFICIENT
public.idx_transactions_date_deleted_comp	transactions	3361 MB	0	UNUSED
public.idx_transactions_date	transactions	3305 MB	4	LOW USE
public.accounts_pkey	accounts	32 MB	7918	ACTIVE
public.customers_mobile_no_key	customers	30 MB	0	UNUSED
public.customers_pancard_no_key	customers	30 MB	0	UNUSED
public.idx_accounts_customer	accounts	26 MB	8588	ACTIVE
public.customers_pkey	customers	21 MB	26340	ACTIVE
public.idx_customers_last_name	customers	7024 kB	0	UNUSED
public.idx_customers_first_name	customers	6952 kB	0	UNUSED
public.loans_pkey	loans	4408 kB	0	UNUSED
public.branches_pkey	branches	64 kB	5031	INEFFICIENT

Detailed Cache Analysis

Per-Table Cache Hit Ratios (Worst 15)

Schema.Table	Cache Hits	Cache Reads	Hit Ratio %
public.transactions	2478644	1922941	56.3
public.customers	42695	23542	64.5
public.accounts	76187	39509	65.8
public.branches	5208	24	99.5
public.loans	5103832	2216	100.0