



Blacklist	
blacklist_id 🔗	int
type	varchar
value	varchar
reason	text
created_at	timestamp

Roles	
role_id 🔗	int
role_name	varchar

Users	
user_id 🔗	int
full_name	varchar
email	varchar
phone	varchar
date_of_birth	date
country	varchar
kyc_status	boolean
risk_level	int
created_at	timestamp
updated_at	timestamp
deleted_at	timestamp

Merchants	
merchant_id 🔗	int
merchant_name	varchar
category	varchar
country	varchar
risk_score	int
created_at	timestamp

Fraud_Rules	
rule_id 🔗	int
rule_name	varchar
description	text
threshold_value	decimal
weight	int
active	boolean

User_Roles	
id 🔗	int
user_id 🔗	int
role_id 🔗	int

Accounts	
account_id 🔗	int
user_id 🔗	int
iban	varchar
balance	decimal
currency	char(3)
account_type	varchar
status	varchar
created_at	timestamp

Devices	
device_id 🔗	int
user_id 🔗	int
device_fingerprint	varchar
os	varchar
browser	varchar
first_seen	timestamp
last_seen	timestamp
trusted	boolean

Behavior_Profile	
profile_id 🔗	int
user_id 🔗	int
avg_transaction_amount	decimal
avg_daily_transactions	decimal
common_country	varchar
usual_login_hour	int
risk_pattern_score	int
last_updated	timestamp

Audit_Logs	
log_id 🔗	int
table_name	varchar
record_id	int
action	varchar
old_value	text
new_value	text
changed_by 🔗	int
changed_at	timestamp

Whitelist	
whitelist_id 🔗	int
user_id 🔗	int
merchant_id 🔗	int
reason	text

Login_History	
login_id 🔗	int
user_id 🔗	int
device_id 🔗	int
ip_address	varchar
geo_lat	decimal
geo_long	decimal
country	varchar
city	varchar
login_time	timestamp
success	boolean

Transactions	
transaction_id 🔗	int
account_id 🔗	int
merchant_id 🔗	int
device_id 🔗	int
amount	decimal
currency	char(3)
transaction_type	varchar
geo_location	varchar
ip_address	varchar
transaction_time	timestamp
status	varchar
risk_score	int
ml_score	decimal

Fraud_Alerts	
alert_id 🔗	int
transaction_id 🔗	int
rule_id 🔗	int
risk_score	int
severity	varchar
created_at	timestamp
resolved	boolean
analyst_id 🔗	int

ML_Predictions	
prediction_id 🔗	int
transaction_id 🔗	int
model_version	varchar
probability	decimal
label	varchar
created_at	timestamp