1. **Purchase Table:**

CREATE TABLE IF NOT EXISTS purchase\_info (

purchase\_date TEXT,

model\_name TEXT,

chassis\_no TEXT UNIQUE,

color TEXT,

purchase\_price REAL,

transport\_cost REAL,

accessories\_cost REAL,

PRIMARY KEY (model\_name, chassis\_no)

);

1. **Sale Table:**

CREATE TABLE IF NOT EXISTS sales\_info (

chassis\_no TEXT PRIMARY KEY,

sale\_date TEXT,

insurance\_cost REAL,

tax\_registration\_cost REAL,

registration\_date TEXT,

payment\_type TEXT CHECK (

payment\_type IN ('cash ', 'disbursment', 'bank\_transfer', 'return\_vehicle')

),

FOREIGN KEY (chassis\_no) REFERENCES purchase\_info(chassis\_no) ON DELETE CASCADE

);

1. **Trigger to delete purchase\_info if return\_vehicle**

CREATE TRIGGER IF NOT EXISTS trg\_return\_vehicle\_delete

AFTER INSERT ON sales\_info

FOR EACH ROW

WHEN NEW.payment\_type = 'return\_vehicle'

BEGIN

DELETE FROM purchase\_info WHERE chassis\_no = NEW.chassis\_no;

END;

1. **Create Profit View Per Vehicle**

CREATE VIEW IF NOT EXISTS vehicle\_profit\_view AS

SELECT

p.chassis\_no,

p.model\_name,

p.purchase\_date,

s.sale\_date,

s.payment\_type,

s.insurance\_cost,

s.tax\_registration\_cost,

s.sales\_price,

p.purchase\_price,

//-- Profit calculation

(s.sales\_price - (p.purchase\_price + s.insurance\_cost + s.tax\_registration\_cost)) AS profit,

//-- Profit Percentage

ROUND(

((s.sales\_price - (p.purchase\_price + s.insurance\_cost + s.tax\_registration\_cost)) \* 100.0) /

(p.purchase\_price + s.insurance\_cost + s.tax\_registration\_cost), 2

) AS profit\_percentage

FROM

purchase\_info p

JOIN

sales\_info s ON p.chassis\_no = s.chassis\_no;

1. **Filter by payment\_type, purchase\_month, model\_name**

-- Example: Filter by payment\_type = 'bank\_transfer'

SELECT \* FROM vehicle\_profit\_view

WHERE

payment\_type = 'bank\_transfer'

-- Example: Filter by payment\_type = month = '06'

SELECT \* FROM vehicle\_profit\_view

WHERE

strftime('%m', purchase\_date) = '06'

-- Example: Filter by payment\_type = model\_name = 'ModelX'

SELECT \* FROM vehicle\_profit\_view

WHERE

model\_name = 'ModelX';

1. **Overall Profit Summary by Time Period**

-- Example: Total profit and average profit % for June 2025

SELECT

COUNT(\*) AS total\_vehicles,

SUM(profit) AS total\_profit,

ROUND(AVG(profit\_percentage), 2) AS average\_profit\_percent

FROM vehicle\_profit\_view

WHERE strftime('%Y-%m', purchase\_date) = '2025-06';

1. **Create a View for Monthly Profit Summary**

CREATE VIEW IF NOT EXISTS monthly\_profit\_summary AS

SELECT

strftime('%Y-%m', purchase\_date) AS month,

COUNT(\*) AS total\_vehicles\_sold,

SUM(profit) AS total\_profit,

ROUND(AVG(profit\_percentage), 2) AS avg\_profit\_percent

FROM vehicle\_profit\_view

GROUP BY strftime('%Y-%m', purchase\_date);

SQL\_query: SELECT \* FROM monthly\_profit\_summary WHERE month = '2025-06';