

accid	txdate	amount
1	2000-01-01 00:00:00	1000
1	2000-01-02 00:00:00	2000
1	2000-01-03 00:00:00	-500
1	2000-01-04 00:00:00	-300
1	2000-01-05 00:00:00	4000
1	2000-01-06 00:00:00	-2000
1	2000-01-07 00:00:00	-200

Frame

OVER() -- RANGE BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING

OVER(ORDER BY txdate)

-- RANGE BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW

-- ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW

GROUP BY WITH ROLLUP

GROUPING()

WINDOW FUNCTION

1. AGGEGRATE

group function

n input rows -> m output row

2. NON AGGEGRATE

window function

n input rows -> n output rows

ROW\_NUMBER() OVER()

OVER() -> empty

OVER() -> PARTITION BY

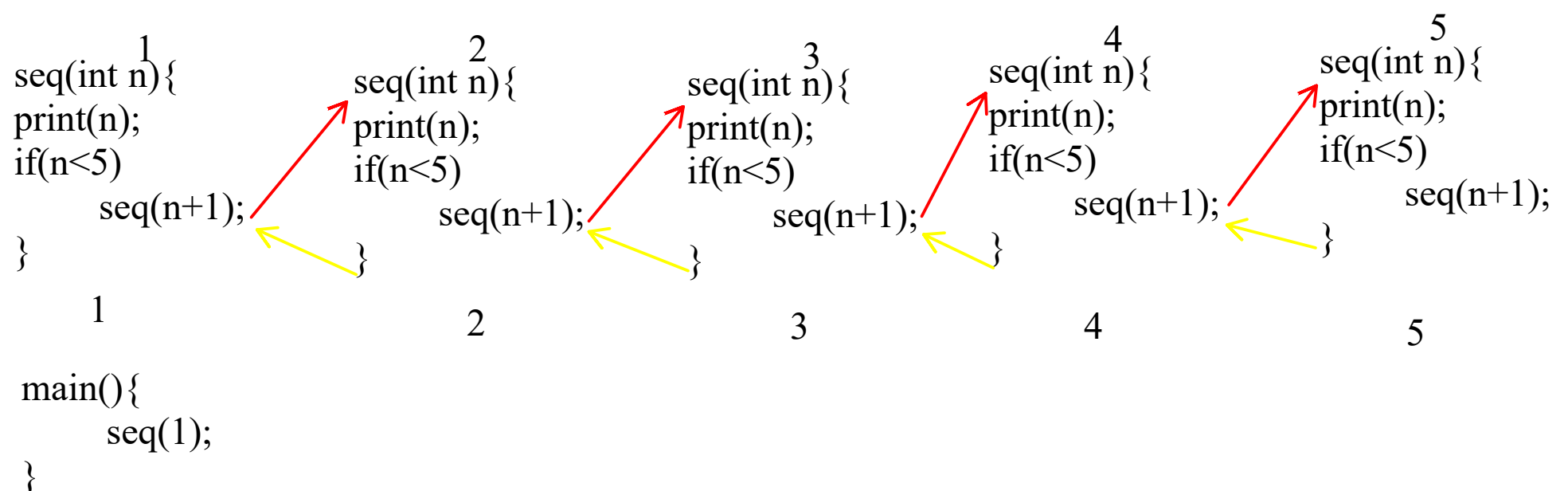
OVER() -> ORDER BY

OVER() -> ROWS|RANGE

CTE

1. NON RECURSIVE

2. RECURCIVE



WITH RECURSIVE seq(n) AS (

(SELECT 1) -- anchor

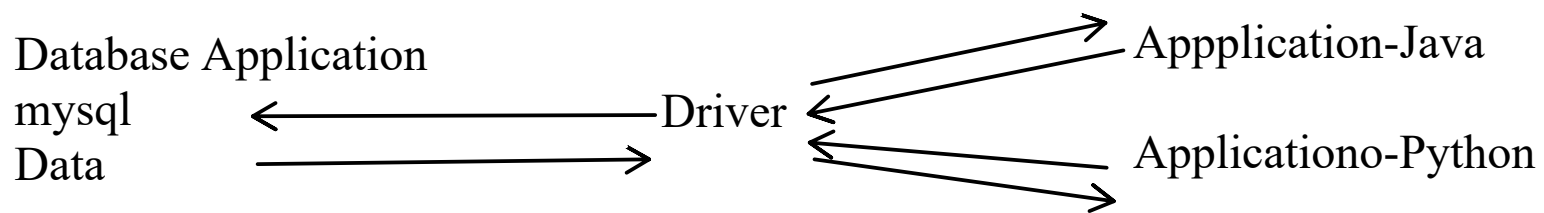
UNION

(SELECT n+1 FROM seq -- recersive member

WHERE n<5) -- condition

)

SELECT \* FROM seq;



types of drivers

1. Type-1(JDBC-ODBC BRIDGE DRIVER)
2. Type-2(NATIVE DRIVER)
3. Type-3 (NETWROK DRIVER)
4. Type-4 (DATABASE SPECIFIC DRIVER)

```
SELECT * FROM customer WHERE email = rohan@gamil.com AND password = 'test' OR 1;
```