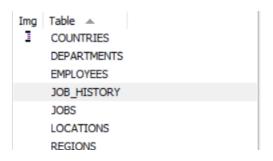


Assuming Oracle database RAC environment is installed in a VM or on any on-premise. A list of sample hr tables has been created in the database for this simulation.



https://debezium.io/documentation/reference/1.9/connectors/oracle.html

Node 1

ORACLE_SID=oltp1
ORACLE_BASE=/u01/app/oracle
ORACLE_HOME=\$ORACLE_BASE/product/19.0.0/db_1
PATH=\$PATH:\$HOME/.local/bin:\$HOME/bin:\$ORACLE_HOME/bin:\$ORACLE_HOME/OPatch

Node 2

ORACLE_SID=oltp2
ORACLE_BASE=/u01/app/oracle
ORACLE_HOME=\$ORACLE_BASE/product/19.0.0/db_1
PATH=\$PATH:\$HOME/.local/bin:\$HOME/bin:\$ORACLE_HOME/bin:\$ORACLE_HOME/OPatch

prerequisites settings for Oracle database

- Creating the connector's LogMiner user

Create tablespace.

CREATE TABLESPACE LOGMINER_TBS DATAFILE

'+DATA' SIZE 25M AUTOEXTEND ON NEXT 25M MAXSIZE UNLIMITED
LOGGING
ONLINE
EXTENT MANAGEMENT LOCAL AUTOALLOCATE
BLOCKSIZE 8K
SEGMENT SPACE MANAGEMENT AUTO
FLASHBACK ON;

Create user.

CREATE USER DBZUSER IDENTIFIED BY <password> DEFAULT TABLESPACE LOGMINER_TBS TEMPORARY TABLESPACE TEMP PROFILE DEFAULT ACCOUNT UNLOCK; -- 2 Roles for DBZUSER GRANT EXECUTE_CATALOG_ROLE TO DBZUSER; GRANT SELECT CATALOG ROLE TO DBZUSER; ALTER USER DBZUSER DEFAULT ROLE ALL; -- 9 System Privileges for DBZUSER GRANT CREATE SEQUENCE TO DBZUSER; GRANT CREATE SESSION TO DBZUSER; GRANT CREATE TABLE TO DBZUSER; GRANT FLASHBACK ANY TABLE TO DBZUSER; GRANT LOCK ANY TABLE TO DBZUSER; GRANT LOGMINING TO DBZUSER; GRANT SELECT ANY TABLE TO DBZUSER: GRANT SELECT ANY TRANSACTION TO DBZUSER; GRANT SET CONTAINER TO DBZUSER; -- 1 Tablespace Quota for DBZUSER ALTER USER DBZUSER QUOTA UNLIMITED ON LOGMINER TBS; -- 12 Object Privileges for DBZUSER GRANT EXECUTE ON SYS.DBMS LOGMNR TO DBZUSER; GRANT EXECUTE ON SYS.DBMS_LOGMNR_D TO DBZUSER; GRANT SELECT ON SYS.V \$ARCHIVED LOG TO DBZUSER; GRANT SELECT ON SYS.V_\$ARCHIVE_DEST_STATUS TO DBZUSER; GRANT SELECT ON SYS.V \$DATABASE TO DBZUSER; GRANT SELECT ON SYS.V_\$LOG TO DBZUSER; GRANT SELECT ON SYS.V_\$LOGFILE TO DBZUSER; GRANT SELECT ON SYS.V_\$LOGMNR_CONTENTS TO DBZUSER; GRANT SELECT ON SYS.V_\$LOGMNR_LOGS TO DBZUSER; GRANT SELECT ON SYS.V_\$LOGMNR_PARAMETERS TO DBZUSER; GRANT SELECT ON SYS.V_\$LOG_HISTORY TO DBZUSER; GRANT SELECT ON SYS.V_\$TRANSACTION TO DBZUSER;

Make sure database is in archivelog mode

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production Version 19.19.0.0.0

SQL> archive log list

Automatic archival Enabled

Archive destination USE_DB_RECOVERY_FILE_DEST

Oldest online log sequence 681 Next log sequence to archive 682 Current log sequence 682

SQL> show parameter db_reco

NAME TYPE VALUE
----db_recovery_file_dest string +DATA

db_recovery_file_dest_size big integer 10G

SQL>

Minimal supplemental logging must be enabled at the database level and can be configured as follows. Please refer to the below link.

ALTER DATABASE ADD SUPPLEMENTAL LOG DATA;

https://debezium.io/documentation/reference/1.9/connectors/oracle.html

To enable Debezium to capture the before state of changed database rows, you must also enable supplemental logging for captured tables or for the entire database. The following example illustrates how to configure supplemental logging for all columns in a single table.

ALTER TABLE HR.REGIONS ADD SUPPLEMENTAL LOG DATA (ALL) COLUMNS; ALTER TABLE HR.COUNTRIES ADD SUPPLEMENTAL LOG DATA (ALL) COLUMNS; ALTER TABLE HR.LOCATIONS ADD SUPPLEMENTAL LOG DATA (ALL) COLUMNS; ALTER TABLE HR.DEPARTMENTS ADD SUPPLEMENTAL LOG DATA (ALL) COLUMNS; ALTER TABLE HR.JOBS ADD SUPPLEMENTAL LOG DATA (ALL) COLUMNS; ALTER TABLE HR.EMPLOYEES ADD SUPPLEMENTAL LOG DATA (ALL) COLUMNS; ALTER TABLE HR.JOB_HISTORY ADD SUPPLEMENTAL LOG DATA (ALL) COLUMNS;



GET STARTED

DOCS

POWERED

DOWNLOAD

3.5.0 is the latest release. The current stable version is 3.5.0

You can verify your download by following these procedures and using these KEYS.

3.5.0

- Released Jun 15, 2023
- Release Notes
- Source download: <u>kafka-3.5.0-src.tgz</u> (<u>asc</u>, <u>sha512</u>)
- · Binary downloads:
 - Scala 2.12 <u>kafka_2.12-3.5.0.tgz</u> (asc, <u>sha512</u>)
 - Scala 2.13 <u>kafka_2.13-3.5.0.tgz</u> (asc, <u>sha512</u>)

https://downloads.apache.org/kafka/3.5.0/kafka_2.13-3.5.0.tgz

kafka_home_directory:/home/kafka/kafka_2.13-3.3.2

kafka Server specs. RAM 2G and CPU 2

```
[kafka@localhost ~]$ cat /etc/redhat-release
Red Hat Enterprise Linux release 9.1 (Plow)
[kafka@localhost ~]$ [
```

and scp to kafka server then unzip

```
[kafka@localhost ~]$ pwd
/home/kafka
[kafka@localhost ~]$ ls -ltr kafka_2.13-3.3.2.tgz
-rw-rw-r--. 1 kafka kafka 106619987 Jan 31 20:53 kafka_2.13-3.3.2.tgz
[kafka@localhost ~]$ [
```

```
[kafka@localhost kafka_2.13-3.3.2]$ pwd/home/kafka/kafka_2.13-3.3.2
```

Procedure

- 1. Download the Debezium Oracle connector plug-in archive.
- 2. Extract the files into your Kafka Connect environment. scp debezium-connector-oracle-1.9.7.Final-plugin to kafka_home_location:/home/kafka/kafka_2.13-3.3.2 then untar
- 3. Download the <u>JDBC driver for Oracle</u> from Maven Central and extract the downloaded driver file to the directory that contains the Debezium Oracle connector JAR file.
 - Copy the ojdbc8.jar to /home/kafka/kafka_2.13-3.3.2/libs
- 4. Add the directory with the JAR files to Kafka@localhost config]\$ vi connect-distributed.properties [kafka@localhost config]\$ vi connect-standalone.properties And change the below parameter path value to plugin.path=/home/kafka/kafka_2.13-3.3.2
- 5. Restart your Kafka Connect process to pick up the new JAR files.

Start zookeeper

[kafka@localhost kafka_2.13-3.3.2]\$ bin/zookeeper-server-start.sh config/zookeeper.properties

```
10033-06-30 [10:32:57,732] INFO Badding configuration from config/pookeeps.properties or appeche.zookeeper.server.quorum.quorumReerConfig) [2003-06-30 [10:32:57,735] INFO configuration from config/pookeeps.grver.grver.quorum.quorumReerConfig) [2003-06-30 [10:32:57,765] INFO clientPortAddress is 0.0.0.0:2181 (org.apache.zookeeper.server.quorum.quorumReerConfig) [2003-06-30 [10:32:57,766] INFO observerMatterFort is not set (org.apache.zookeeper.server.duorum.quorumReerConfig) [2003-06-30 [10:32:57,795] INFO autopurge.snapRetainCount set to 3 (org.apache.zookeeper.server.duorum.quorumReerConfig) [2003-06-30 [10:32:57,795] INFO autopurge.snapRetainCount set to 3 (org.apache.zookeeper.server.duorum.quorumReerConfig) [2003-06-30 [10:32:57,795] INFO autopurge.snapRetainCount set to 0 (org.apache.zookeeper.server.duorum.quorumReerConfig) [2003-06-30 [10:32:57,795] INFO autopurge.purgeInterval set to 0 (org.apache.zookeeper.server.duorum.quorumReerConfig) [2003-06-30 [10:32:57,996] INFO [
```

Start kafka connect process

[kafka@localhost kafka_2.13-3.3.2]\$ bin/kafka-server-start.sh config/server.properties

```
[tarka@localhost kafka 2.13-3.2]s bin/kafka-server-start.sh config/server, properties
[2023-06-30 10:33:47, 513] INPO Registered kafka:type-kafka Lodgicontroller Mean (kafka.utils.LodgicontrollerRegistrations)
[2023-06-30 10:33:42, 680] INPO Setting -D jdk.tls.rejectClientInitiatedRenegotiation=true to disable client-initiated TLS renegotiation (org.apache.zookeeper.common.X5
[2023-06-30 10:33:42, 680] INPO Registered signal handlers for TERM, INT, HUP (org.apache.kafka.common.utils.LoggingSignalHandler)
[2023-06-30 10:33:42, 680] INPO Starting (kafka.server.KafkaServer)
[2023-06-30 10:33:42, 680] INPO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
[2023-06-30 10:33:42, 687] INPO [ZookeeperClient Kafka server] Initializing a new session to localhost:2181. (kafka.zookeeper.ZooKeeperClient on 04/08/2021 16:35 GMT (org.apache.zookeeper.zooKeeper)
[2023-06-30 10:33:42, 855] INPO [Client environment:zookeeper.version=3.6.3-e4014e4ad208706lbc6b9f8dec2d69f2e2d58660a, built on 04/08/2021 16:35 GMT (org.apache.zookeeper.zooKeeper)
[2023-06-30 10:33:42, 856] INPO Client environment:java.version=11.0.16.1 (org.apache.zookeeper.ZooKeeper)
[2023-06-30 10:33:42, 857] INPO Client environment:java.version=11.0.16.1 (org.apache.zookeeper.ZooKeeper)
[2023-06-30 10:33:42, 857] INPO Client environment:java.home=/usr/lib/ym/java-11-openjdk-11.0.16.1.1-3.e19.x86.64 (org.apache.zookeeper.ZooKeeper)
[2023-06-30 10:33:42, 857] INPO Client environment:java.chome=/usr/lib/ym/java-11-openjdk-11.0.16.1.1-3.e19.x86.64 (org.apache.zookeeper.ZooKeeper)
[2023-06-30 10:33:42, 857] INPO Client environment:java.vense/warklib/ym/java-11-openjdk-11.0.16.1.1-3.e19.x86.64 (org.apache.zookeeper.ZooKeeper)
[2023-06-30 10:33:42, 857] INPO Client environment:java.chome=/usr/lib/ym/java-11-openjdk-11.0.16.1.1-3.e19.x86.64 (org.apache.zookeeper.ZooKeeper)
[2023-06-30 10:33:42, 857] INPO Client environment:java.chome=/usr/lib/ym/java-11-openjdk-11.0.16.1.1-3.e19.x86.64 (org.apache.zookeeper.ZooKeeper)
[2023-06-30 10:33:42, 857] INPO Cl
```

Create a Oracle connector as debezium debezium-oracle-connector.properties in /home/kafka/kafka_2.13-3.3.2/config

Add in all the relevant parameters based on your requirement. Please go through the link below https://debezium.io/documentation/reference/1.9/connectors/oracle.html

[kafka@localhost config]\$ more debezium-oracle-connector.properties

connector.class: io.debezium.connector.oracle.OracleConnector

db_type: oracle

rac.nodes: 192.168.109.211:1521,192.168.109.212:1521

topic.creation.default.partitions: 4

database.histroy.producer.min.insync.replicas: 2

task.max: 1

database.history.kafka.topic: preoracles

schema.include.list: HR,SOE

log.mining.strategy: redo_log_catalog database.history.kafka.recovery.attempts: 4

decimal.handling.mode: double

topic.creation.default.replication.factor: 1 database.history.skip.unparseable.ddl: true

database.history.store.only.captured.tables.ddl: true

database.out.server.name: dbzxout

database.oracle.version: 12+

log.mining.scn.gap.detection.gap.size.min: 1000

database.user: dbzuser database.dbname: oltp

topic.creation.default.cleanup.policy: delete

database.history.kafka.bootstrap.servers: 192.168.109.137:9092

database.url: jdbc:oracle:thin:@

(DESCRIPTION=(ENABLE=BROKEN)(ADDRESS_LIST=(LOAD_BALANCE=OFF)(FAILOVER=ON)(ADDRESS=(

PROTOCOL=TCP)(HOST=oltp-scan.localdomain)(PORT=1521

)))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=oltp.localdomain)))

database.server.name: preoracle

event.processing.failure.handling.mode: warn

heartbeat.interval.ms: 3000

topic.creation.default.retention.ms: 86400000

database.port: 1521 error.log.enable: true

database.tablename.case.sensitive: false log.mining.session.max.ms:1800000

database.password: dbz

name: oracle-prelive-connector

table.include.list:

HR.EMPLOYEES, HR.T1, HR.REGIONS, HR.COUNTRIES, HR.LOCATIONS, HR.DEPARTMENTS, HR.JOBS, HR.JOBS, HR.DEPARTMENTS, HR.DEPARTMENT

B_HISTORY,SOE.ADDRESSES,SOE.CARD_DETAILS,SOE.CUSTOMERS,SOE.INVE

 $NTORIES, SOE. LOGON, SOE. ORDER_ITEMS, SOE. ORDERENTRY_METADATA, SOE. ORDERS, SOE. PRODUCT$

_DESCRIPTIONS,SOE.PRODUCT_INFORMATION,SOE.WAREHOUSES

log.mining.scn.gap.detection.time.interval.max.ms: 20000

snapshot.mode: schema_only

log.mining.transaction.retention.hours:2 signal.data.collection:oltp:HR.EMPLOYEES incremental.snapshot.chunk.size:1024

[kafka@localhost config]\$

Start debezium with kafka connect

[kafka@localhost kafka_2.13-3.3.2]\$ bin/connect-standalone.sh config/connect-standalone.properties config/debezium-oracle-connector.properties

Insert a record in the tables.

INSERT INTO hr.locations (location_id, street_address, postal_code, city, state_province, country_id) VALUES(4100 , 'No 203, Block G7 Wangsa Maju', '53300', 'Malaysia', NULL, 'ML');

INSERT INTO hr.locations (location_id, street_address, postal_code, city, state_province, country_id) VALUES(4200 , 'No 505, Block G7 Wangsa Maju', '53300', 'Malaysia',NULL, 'IT');

```
SQL> INSERT INTO hr.locations (location_id, street_address, postal_code, city, state_province, country_id) VALUES(4100 , 'No 203, Block G7 Wangsa Maju', '53300', 'Mala ysia', NULL, 'ML');

1 row created.

SQL> INSERT INTO hr.locations (location_id, street_address, postal_code, city, state_province, country_id) VALUES(4200 , 'No 505, Block G7 Wangsa Maju', '53300', 'Mala ysia', NULL, 'IT');

1 row created.

SQL> commit;

Commit complete.
```

INSERT INTO hr.departments (department_id, department_name, manager_id, location_id) VALUES(280, 'Database Administration', NULL, 4100);

INSERT INTO hr.departments (department_id, department_name, manager_id, location_id) VALUES(290, 'Marketing', NULL, 4200);

```
SQL> INSERT INTO hr.departments (department_id, department_name, manager_id, location_id) VALUES( 280, 'Database Administration', NULL, 4100);
1 row created.

SQL> INSERT INTO hr.departments (department_id, department_name, manager_id, location_id) VALUES( 290, 'Marketing', NULL, 4200);
1 row created.

SQL> commit;
Commit complete.
```

INSERT INTO hr.jobs (job_id, job_title, min_salary, max_salary) VALUES('DBA', 'Database Administration', 2080, 4000);

INSERT INTO hr.jobs (job_id, job_title, min_salary, max_salary) VALUES('MK_REP', 'Marketing', 1500, 3000);

```
SQL> INSERT INTO hr.jobs (job_id, job_title, min_salary, max_salary) VALUES( 'DBA', 'Database Administration', 2080, 4000);

1 row created.

SQL> INSERT INTO hr.jobs (job_id, job_title, min_salary, max_salary) VALUES( 'MK_REP', 'Marketing', 1500, 3000);
INSERT INTO hr.jobs (job_id, job_title, min_salary, max_salary) VALUES( 'MK_REP', 'Marketing', 1500, 3000)

*
ERROR at line 1:
ORA-00001: unique constraint (HR.JOB_ID_PK) violated

SQL> INSERT INTO hr.jobs (job_id, job_title, min_salary, max_salary) VALUES( 'MK', 'Marketing', 1500, 3000);

1 row created.

SQL> commit;
Commit complete.
```

INSERT INTO hr.employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (207, 'Thana', 'Rocky', 'thanarocky', '01212345678', TO_DATE('17-06-2023', 'dd-MM-yyyy'), 'DBA', 2400, NULL, NULL, 280);

INSERT INTO hr.employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (208, 'Scylla', 'Mongo', 'ScullaMongo', '01912345678', TO_DATE('21-09-2015', 'dd-MM-yyyy'), 'MK', 17000, NULL, NULL, 290);

```
SQL> INSERT INTO hr.employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (207, 'Thana', 'Rocky', 'thanarocky', '01212345678', To_DATE('17-06-2023', 'dd-MM-yyyyy'), 'DBA', 2400, NULL, NULL, 280); 2

SQL> INSERT INTO hr.employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (208, 'Scylla', 'Mongo', 'ScullaMongo', '01912345678', To_DATE('21-09-2015', 'dd-MM-yyyyy'), 'MK', 17000, NULL, NULL, 290); 2

1 row created.

SQL> commit;

Commit complete.
```

List the kafka topic

[kafka@localhost kafka 2.13-3.3.2]\$ bin/kafka-topics.sh --bootstrap-server localhost:9092 –list

```
[kafka@localhost kafka_2.13-3.3.2]$ bin/kafka-topics.sh --bootstrap-server localhost:9092 --list
HR.COUNTRIES
T1
 consumer offsets
 __debezium-heartbeat.preoracle
preoracle
preoracle.HR.COUNTRIES
preoracle.HR.DEPARTMENTS
preoracle.HR.EMPLOYEES
preoracle.HR.JOBS
preoracle.HR.JOB HISTORY
preoracle.HR.LOCATIONS
preoracle.HR.REGIONS
preoracle.HR.T1
preoracle.SOE.ADDRESSES
preoracle.SOE.CARD DETAILS
preoracle.SOE.CUSTOMERS
preoracle.SOE.INVENTORIES
preoracle.SOE.LOGON
preoracle.SOE.ORDERENTRY METADATA
preoracle.SOE.ORDERS
preoracle.SOE.ORDER ITEMS
preoracle.SOE.PRODUCT DESCRIPTIONS
preoracle.SOE.PRODUCT_INFORMATION
preoracle.SOE.WAREHOUSES
preoracles
[kafka@localhost kafka 2.13-3.3.2]$
```

To view the changes, execute the following command: For each topic name of the respective tables name

[kafka@localhost kafka_2.13-3.3.2]\$ bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic preoracle.HR.LOCATIONS --formatter kafka.tools.DefaultMessageFormatter --property print.timestamp=true --property print.key=true --property print.value=true --from-beginning

[Rafk@localhost Kafka 2.13-3.3.2]\$ bin/kafka-console-consumer.sh --bootstrap-server localhost:992 --topic preoracle.HR.LOCATIONS --formatter kafka.tools.DefaultMessa geFormatter --property print.timestampeture --property print.timestampeture --property print.timestampeture --property print.timestampeture --property print.timestampeture --property print.time.ficials.filtype**strate*.filtype**str

[kafka@localhost kafka_2.13-3.3.2]\$ bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic preoracle.HR.DEPARTMENTS --formatter kafka.tools.DefaultMessageFormatter --property print.timestamp=true --property print.key=true --property print.value=true --from-beginning

[Markaglocalhost Marka 2.13-13.2] bin/Marka-console-consumer.sh --bootstrap-server localhost 1982 --bootstra

[kafka@localhost kafka_2.13-3.3.2]\$ bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic preoracle.HR.JOBS --formatter kafka.tools.DefaultMessageFormatter --property print.timestamp=true --property print.key=true --property print.value=true --from-beginning

| HathaBlocalhoot kafe_2, 13-3, 2|S bin/kafks-console-consumer.sh -bootstrap-server localhoot.9992 -topic protocole.HR.JOBS -formatter kafks tools.DefaultMessageFormatter -property print. Limestampture -property print. Ruberture -property -print. Ruberture -pr

[kafka@localhost kafka_2.13-3.3.2]\$ bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic preoracle.HR.EMPLOYEES --formatter kafka.tools.DefaultMessageFormatter --property print.timestamp=true --property print.key=true --property print.value=true --from-beginning

[MarKe@localhort Kafka 2.13-3.2]5 bin/kafka-console-consumer.sh --bootstrap-server localhost:9922 --topic preorate HE.EMPLOYES --formatter kafka.tools.DefaultMessa geformatter - property print timestamptuse --property print keystruc - property print valuestume - from beginning
createFime:168103750973 ["schema":["type"."struct", "fields":["type"."struct", "fields":["type"."struct", "fields":["type"."struct", "fields":["type"."struct", "fields":["type"."struct", "fields":["type"."struct", "fields":["type"."struct", "fields":["type"."struct", "fields":["type"."struct", "fields":["type"."string", "optional":false, "field"."BMEDOYES_ID"]
("type"."string", "optional":true, "field"."BMEDOYES_ID")
("type"."string", "optional":true, "field"."BMEDOYES_ID"), ("type"."string", "optional":false, "field"."MAST_NAME"), ("type"."string", "optional":false, "field"."MAST_NAME"), ("type"."string", "optional":false, "field"."MAST_NAME"), ("type"."string", "optional":false, "field"."BMEDOYES_ID"), ("type"."string", "optional":false, "field"."BEPARTMENT_ID"), ("optional":true, "field"."BMEDOYES_ID"), ("type"."string", "optional":true, "field"."Soll ID", ("type"."string", "optional":true, "field"."self"."string", "optional":false, "field"."self"."string", "optional":false, "field"."self"."string", "optional":false, "field"."self"."string", "optional":false, "field"."self"."self"."string", "optional":false, "field"."self"."self

Createrime 1608103750973 ["schema": ("type"."struct", "fields".[["type"."int32", "optional":false, "field"."EMPLOYEE_ID")], ("schema": ("type"."struct", "fields":[["type"."struct", "fields":[["type"."struct", "fields":[["type"."struct", "fields":[["type"."struct", "fields":[["type"."struct", "fields".[["type"."struct", "fields".[["type"."struct", "fields".[["type"."struct", "fields".[["type"."struct", "fields".[["type"."struct", "fields".[["type"."struct", "fields".[["type"."struct", "fields"."]"]]]]]

"("type"."struct", "fields"."struct", "field"."PROME NUMBER"), ("type"."struct", "optional":false, "field"."LAST NAMB"), ("type"."struct", "fields"."struct", "fields"."structte, "fields"."structte

The output showed the changes were captured.

Reference:

https://medium.com/@Imramos.usa/debezium-cdc-oracle-931c8a62023b https://debezium.io/documentation/reference/1.9/connectors/oracle.html https://downloads.apache.org/kafka/3.5.0/kafka 2.13-3.5.0.tgz