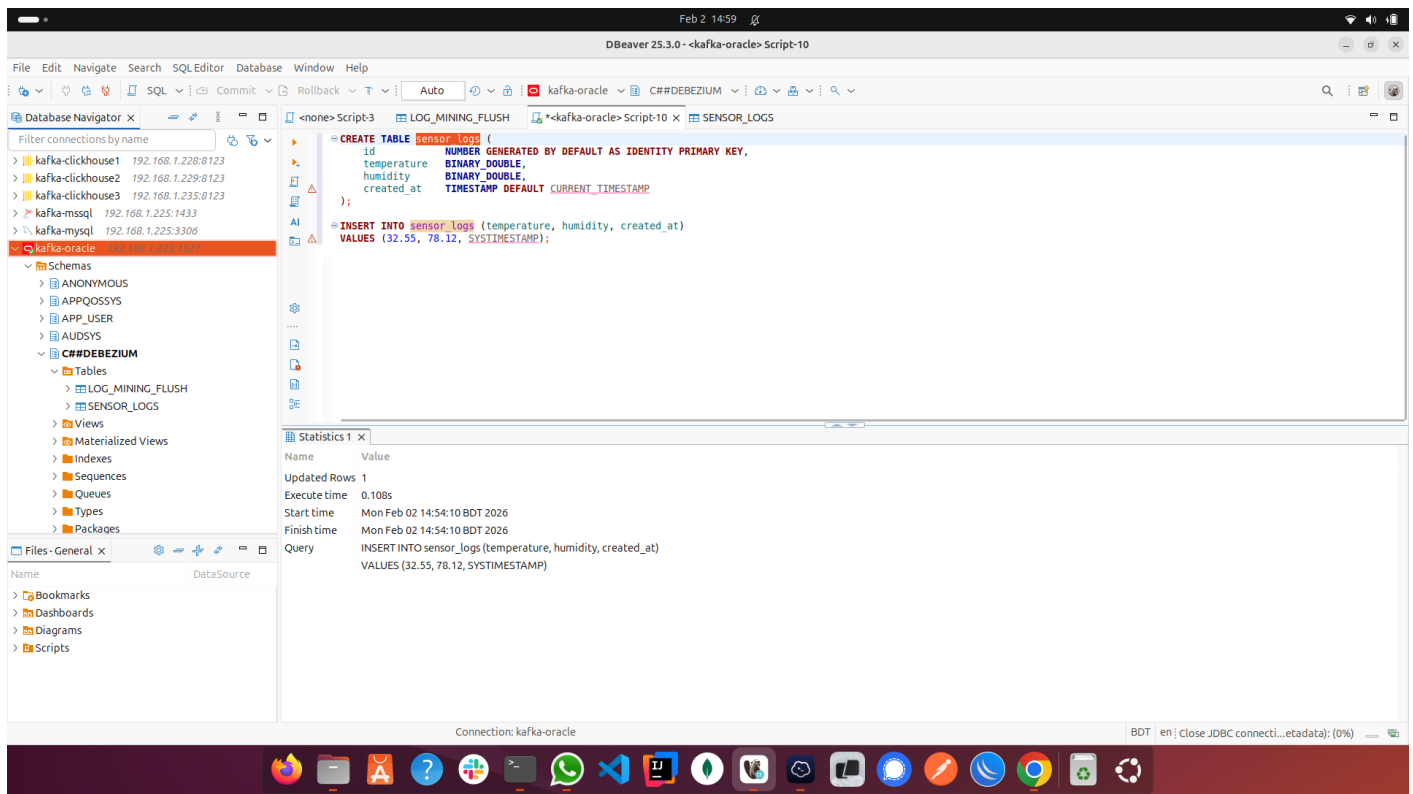


Create Oracle User and Grant Required Permissions



Oracle 19c + Debezium LogMiner Setup Guide

1. Enable Required Database Settings (CDB\$ROOT)

```
sqlplus / as sysdba
```

Switch to CDB root

```
ALTER SESSION SET CONTAINER = CDB$ROOT;
```

Confirm:

```
SHOW CON_NAME;
```

Should show:

CDB\$ROOT

⚠ Now you can run MOUNT / ARCHIVELOG commands

Shut down the entire CDB

```
SHUTDOWN IMMEDIATE;
```

You should see:

Database closed. Database dismounted. ORACLE instance shut down.

Start in MOUNT mode

Now run:

```
STARTUP MOUNT;
```

This time it will succeed because now you are in the root.

Enable ARCHIVELOG

```
ALTER DATABASE ARCHIVELOG;
```

Open the database

```
ALTER DATABASE OPEN;
```

Verify

```
ARCHIVE LOG LIST;
```

Apply supplemental logging

```
ALTER SESSION SET CONTAINER=CDB$ROOT;

ALTER DATABASE ADD SUPPLEMENTAL LOG DATA;
ALTER DATABASE ADD SUPPLEMENTAL LOG DATA (ALL) COLUMNS;

ALTER DATABASE FORCE LOGGING;

ALTER SYSTEM SET ENABLE_GOLDENGATE_REPLICATION=TRUE SCOPE=BOTH;
```

2. Create Common User for Debezium

```
ALTER SESSION SET CONTAINER=CDB$ROOT;

CREATE USER C##DEBEZIUM IDENTIFIED BY "StrongPassword" CONTAINER=ALL;
```

Grant LogMiner + Root Privileges

```
GRANT CREATE SESSION TO C##DEBEZIUM CONTAINER=ALL;
GRANT SET CONTAINER TO C##DEBEZIUM CONTAINER=ALL;

GRANT SELECT ANY DICTIONARY TO C##DEBEZIUM CONTAINER=ALL;
GRANT SELECT ANY TRANSACTION TO C##DEBEZIUM CONTAINER=ALL;
GRANT LOGMINING TO C##DEBEZIUM CONTAINER=ALL;

GRANT EXECUTE ON SYS.DBMS_LOGMNR TO C##DEBEZIUM CONTAINER=ALL;
GRANT EXECUTE ON SYS.DBMS_LOGMNR_D TO C##DEBEZIUM CONTAINER=ALL;

GRANT SELECT ON V_$LOG TO C##DEBEZIUM CONTAINER=ALL;
GRANT SELECT ON V_$LOGFILE TO C##DEBEZIUM CONTAINER=ALL;
GRANT SELECT ON V_$ARCHIVED_LOG TO C##DEBEZIUM CONTAINER=ALL;
GRANT SELECT ON V_$DATABASE TO C##DEBEZIUM CONTAINER=ALL;
GRANT SELECT ON V_$INSTANCE TO C##DEBEZIUM CONTAINER=ALL;
```

3. Create PDB User (inside ORCLPDB1)

```
ALTER SESSION SET CONTAINER=ORCLPDB1;

CREATE USER PDBZIUM IDENTIFIED BY "StrongPassword";

GRANT CONNECT, RESOURCE TO PDBZIUM;
GRANT CREATE SESSION TO PDBZIUM;
GRANT SELECT ANY DICTIONARY TO PDBZIUM;
GRANT SELECT ANY TABLE TO PDBZIUM;
GRANT SELECT ANY TRANSACTION TO PDBZIUM;
GRANT FLASHBACK ANY TABLE TO PDBZIUM;

ALTER USER PDBZIUM QUOTA UNLIMITED ON USERS;
ALTER USER C##DEBEZIUM QUOTA UNLIMITED ON USERS;
```

PDB Permissions

```
GRANT CREATE SESSION TO C##DEBEZIUM;
GRANT CREATE TABLE TO C##DEBEZIUM;
GRANT UNLIMITED TABLESPACE TO C##DEBEZIUM;
GRANT RESOURCE TO C##DEBEZIUM;
ALTER USER C##DEBEZIUM QUOTA UNLIMITED ON USERS;
```

OPTIONAL BUT IMPORTANT

If your PDB default tablespace is not USERS, verify with:

```
SELECT username, default_tablespace FROM dba_users WHERE username='C##DEBEZIUM';
```

If it is something else like SYSAUX or SYSTEM, fix:

```
ALTER USER C##DEBEZIUM DEFAULT TABLESPACE USERS;
```

— Switch to CDB root (Extra Permission)

```
ALTER SESSION SET CONTAINER=CDB$ROOT;
```

Step 3 — Run these grants

```
GRANT CREATE TABLE TO C##DEBEZIUM CONTAINER=ALL;  
GRANT UNLIMITED TABLESPACE TO C##DEBEZIUM CONTAINER=ALL;
```

MANUALLY TEST (IMPORTANT)

Run this from C##DEBEZIUM session:

```
CONNECT C##DEBEZIUM/StrongPassword@ORCLPDB1  
CREATE TABLE LOG_MINING_FLUSH (id NUMBER);  
DROP TABLE LOG_MINING_FLUSH;
```

If this works → Debezium will NOT fail again.

4. Required Debezium Connector Settings

```
{  
  "database.user": "C##DEBEZIUM",  
  "database.password": "StrongPassword",  
  "database.dbname": "ORCLPDB1",  
  "database.pdb.name": "ORCLPDB1"  
}
```

```
CREATE TABLE sensor_logs ( id NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,  
temperature BINARY_DOUBLE, humidity BINARY_DOUBLE, created_at TIMESTAMP DEFAULT  
CURRENT_TIMESTAMP );
```

```
INSERT INTO sensor_logs (temperature, humidity, created_at) VALUES (32.45, 79.12,  
SYSTIMESTAMP);
```

```
{  
  "name": "oracle-connectorv9",  
  "config": {  
    "connector.class": "io.debezium.connector.oracle.OracleConnector",  
    "tasks.max": "1",  
    "schema.include.list": "C##DEBEZIUM",  
    "table.include.list": "C##DEBEZIUM.sensor_logs",  
    "database.hostname": "192.168.1.225",
```

```

"database.port": "1521",

"database.dbname": "ORCLPDB1",
"database.pdb.name": "ORCLPDB1",

"database.user": "C##DEBEZIUM",
"database.password": "StrongPassword",

"topic.prefix": "oraclecdcv9",

"database.connection.adapter": "logminer",

"schema.history.internal.kafka.bootstrap.servers": "192.168.1.226:9092",
"schema.history.internal.kafka.topic": "oracle.schema-changesv9",
"snapshot.mode": "initial",
"include.schema.changes": "true",
"tombstones.on.delete": "false",

"log.mining.strategy": "online_catalog",
"log.mining.continuous.mine": "true",
"log.mining.archive.log.only.mode": "false"
}
}

```

```

[](https://wiki.exceltoquiz.com/uploads/images/gallery/2026-02/cTbvD793gVXJu5zz-image-1770022792927.png)

```

Register

```

curl -X POST -H "Content-Type: application/json" --data @f.json
http://localhost:8083/connectors

```

Verify Connector

```
curl http://localhost:8083/connectors  
curl http://localhost:8083/connectors/oracle-connector/status
```

Kafka Topics Created

```
/opt/kafka/bin/kafka-topics.sh --bootstrap-server localhost:9092 --list
```

Consume CDC Messages

```
/opt/kafka/bin/kafka-console-consumer.sh \  
  --bootstrap-server localhost:9092 \  
  --topic mysqlserver1.mydb.customers \  
  --from-beginning
```

Delete Connector

```
curl -X DELETE http://localhost:8083/connectors/mysql-connector
```

5. Notes

- This configuration works for Oracle 19c + Debezium 3.3.
- It supports LogMiner CDC for Kafka Connect.
- Ensure redo logs and archive logs are enabled.

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