

Debezium test run Against – Oracle 12

Steps followed during test run:

Step:1

Created Docker instance by referring page:

<https://github.com/debezium/oracle-vagrant-box>

Step:2

Configured Oracle DB by referring command

```
cat setup.sh | docker exec -i dbz_oracle bash
```

Step:3

Followed debezium-examples by referring page:

<https://github.com/debezium/debezium-examples/tree/master/tutorial>

| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS | PORTS | NAMES |
|--------------|---------------------------------------|--------------------------|--------------|-----------------------|--|------------------|
| a298ef1c5f08 | debezium/connect-with-oracle-jdbc:0.9 | "/docker-entrypoint..." | 22 hours ago | Up 22 hours | 0.0.0.0:5005->5005/tcp, 8778/tcp, 9092/tcp, 0.0.0.0:8083->8083/tcp, 9779/tcp | debezium-1_conne |
| ct_1 | debezium/kafka:0.9 | "/docker-entrypoint..." | 22 hours ago | Up 22 hours | 8778/tcp, 9779/tcp, 0.0.0.0:9092->9092/tcp | debezium-1_kafka |
| 1 | debezium/zookeeper:0.9 | "/docker-entrypoint..." | 22 hours ago | Up 22 hours | 0.0.0.0:2181->2181/tcp, 0.0.0.0:2888->2888/tcp, 8778/tcp, 0.0.0.0:3888->3888/tcp, 9779/tcp | debezium-1_zooke |
| 89ef_1 | oracle/database:12.2.0.1-ee | "/bin/sh -c 'exec 50..." | 22 hours ago | Up 22 hours (healthy) | 0.0.0.0:1521->1521/tcp, 5588/tcp | dbz_oracle_12 |

Inserted Test Data to Oracle:

```
cat ./inventory.sql | docker exec -i dbz_oracle_12 sqlplus  
debezium/dbz@//localhost:1521/ORCLPDB1
```

```
SELECT * FROM debezium.products ;
```

| ID | NAME | DESCRIPTION | WEIGHT |
|----|------------------------|---|--------|
| 1 | 110 DBZTest | Change Data Capture | 30.2 |
| 2 | 101 scooter | Small 2-wheel scooter | 3.14 |
| 3 | 102 car battery | 12V car battery | 8.1 |
| 4 | 103 12-pack drill bits | 12-pack of drill bits with sizes ranging from #40 to #3 | 0.8 |
| 5 | 104 hammer | 12oz carpenter's hammer | 0.75 |
| 6 | 105 hammer | 14oz carpenter's hammer | 0.875 |
| 7 | 106 hammer | 16oz carpenter's hammer | 1 |
| 8 | 107 rocks | box of assorted rocks | 5.3 |
| 9 | 108 Test | water resistant black wind breaker | 0.1 |
| 10 | 109 spare tire | 24 inch spare tire | 22.2 |

Started Oracle Connector :

Start Oracle connector

```
curl -i -X POST -H "Accept:application/json" -H "Content-Type:application/json" http://localhost:8083/connectors/ -d @register-oracle.json
```

```
{
  "name": "inventory-connector",
  "config": {
    "connector.class" : "io.debezium.connector.oracle.OracleConnector",
    "tasks.max" : "1",
    "database.server.name" : "server1",
    "database.hostname" : "dbz_oracle_12",
    "database.port" : "1521",
    "database.user" : "c##xstrm",
    "database.password" : "xs",
```


Updated, Inserted and Deleted the record and checked change log

```
INSERT INTO products VALUES (NULL, 'Table', '10 Sq Fit', 10.0);  
COMMIT;
```

```
UPDATE products SET name='rock box' where id = '107';
```

```
COMMIT;
```

Script Output x Query Result x
Task completed in 0.016 seconds

1 row inserted.

Commit complete.

1 row updated.

Commit complete.

```
{  
  "schema": {"type": "struct", "fields": [{"type": "int16", "optional": false, "field": "ID"}, {"type": "string", "optional": true, "field": "DESCRIPTION"}, {"type": "struct", "fields": [{"type": "int32", "optional": false, "field": "scale"}, {"type": "bytes", "optional": false, "field": "value"}], "optional": true, "name": "io.debezium.data.VariableScaleDecimal", "version": "1", "doc": "Variable scaled decimal", "field": "WEIGHT"}], "optional": true, "name": "server1.DEBEZIUM.PRODUCTS.Value", "field": "before"}, {"type": "struct", "fields": [{"type": "int16", "optional": false, "field": "ID"}, {"type": "string", "optional": false, "field": "NAME"}, {"type": "string", "optional": true, "field": "DESCRIPTION"}, {"type": "struct", "fields": [{"type": "int32", "optional": false, "field": "scale"}, {"type": "bytes", "optional": false, "field": "value"}], "optional": true, "name": "io.debezium.data.VariableScaleDecimal", "version": "1", "doc": "Variable scaled decimal", "field": "WEIGHT"}], "optional": true, "name": "server1.DEBEZIUM.PRODUCTS.Value", "field": "after"}, {"type": "struct", "fields": [{"type": "string", "optional": true, "field": "version"}, {"type": "string", "optional": true, "field": "connector"}, {"type": "string", "optional": false, "field": "name"}, {"type": "int64", "optional": true, "field": "ts_ms"}, {"type": "string", "optional": true, "field": "xid"}, {"type": "int64", "optional": true, "field": "scn"}, {"type": "boolean", "optional": true, "field": "snapshot"}], "optional": false, "name": "io.debezium.connector.oracle.Source", "field": "source"}, {"type": "string", "optional": false, "field": "op"}, {"type": "int64", "optional": true, "field": "ts_ms"}, {"type": "boolean", "name": "server1.DEBEZIUM.PRODUCTS.Envelope", "payload": {"before": null, "after": {"ID": "111", "NAME": "Table", "DESCRIPTION": "10 Sq Fit", "WEIGHT": {"scale": 10, "value": "0"}, "source": {"version": "0.9.4.Final", "connector": "oracle", "name": "server1", "ts_ms": 156656344080, "xid": "4.19.468", "scn": 1486257, "snapshot": false}, "op": "c", "ts_ms": 156656358162}}}, {"type": "struct", "fields": [{"type": "int16", "optional": false, "field": "ID"}, {"type": "string", "optional": false, "name": "server1.DEBEZIUM.PRODUCTS.Key", "payload": {"ID": "107"}}, {"type": "int16", "optional": false, "field": "ID"}, {"type": "string", "optional": false, "field": "NAME"}, {"type": "string", "optional": true, "field": "DESCRIPTION"}, {"type": "struct", "fields": [{"type": "int32", "optional": false, "field": "scale"}, {"type": "bytes", "optional": false, "field": "value"}], "optional": true, "name": "io.debezium.data.VariableScaleDecimal", "version": "1", "doc": "Variable scaled decimal", "field": "WEIGHT"}], "optional": true, "name": "server1.DEBEZIUM.PRODUCTS.Value", "field": "before"}, {"type": "struct", "fields": [{"type": "int16", "optional": false, "field": "ID"}, {"type": "string", "optional": false, "field": "NAME"}, {"type": "string", "optional": true, "field": "DESCRIPTION"}, {"type": "struct", "fields": [{"type": "int32", "optional": false, "field": "scale"}, {"type": "bytes", "optional": false, "field": "value"}], "optional": true, "name": "io.debezium.data.VariableScaleDecimal", "version": "1", "doc": "Variable scaled decimal", "field": "WEIGHT"}], "optional": true, "name": "server1.DEBEZIUM.PRODUCTS.Value", "field": "after"}, {"type": "struct", "fields": [{"type": "string", "optional": true, "field": "version"}, {"type": "string", "optional": true, "field": "connector"}, {"type": "string", "optional": false, "field": "name"}, {"type": "int64", "optional": true, "field": "ts_ms"}, {"type": "string", "optional": true, "field": "xid"}, {"type": "int64", "optional": true, "field": "scn"}, {"type": "boolean", "optional": true, "field": "snapshot"}], "optional": false, "name": "io.debezium.connector.oracle.Source", "field": "source"}, {"type": "string", "optional": false, "field": "op"}, {"type": "int64", "optional": true, "field": "ts_ms"}, {"type": "boolean", "name": "server1.DEBEZIUM.PRODUCTS.Envelope", "payload": {"before": {"ID": "107", "NAME": "rocks", "DESCRIPTION": "box of assorted rocks", "WEIGHT": {"scale": 1, "value": "0"}, "after": {"ID": "107", "NAME": "rock box", "DESCRIPTION": "box of assorted rocks", "WEIGHT": {"scale": 1, "value": "0"}, "source": {"version": "0.9.4.Final", "connector": "oracle", "name": "server1", "ts_ms": 156656474080, "xid": "10.21.478", "scn": 1486530, "snapshot": false}, "op": "u", "ts_ms": 156656498388}}}
```

Delete:

```
DELETE FROM debezium.products where ID = 110;
```

Script Output x

Query Result x



Task completed in 0.047 seconds

1 row updated.

Commit complete.

1 row inserted.

Commit complete.

1 row inserted.

Commit complete.

Commit complete.

1 row deleted.

