Hello people, I want to talk about something I find really simple and fascinating. ORDS. Oracle Rest Data Services. It can boost your productivity, it will give you a fast and easy integration option. It is a Java application (a war file) which will enable you to expose database functionality and entities over RESTful web services.

q1 (Bilegt): it's a new product ? -> introducing the history

No, not really. It has been around for a very long time. It was -2011 I guess- called **Oracle Application Express Listener**. Then it has evolved and matured and renamed to ORDS and since 2015 it doesn’t require APEX. For an APEX environment, APEX requires some form of web server to **proxy requests between web browser and APEX engine**. Oracle Database is shipped with Oracle Http Server (OHS), some form of Apache and it was rely on OHS mod\_plsql. ORDS is an **alternative to OHS mod\_plsql**. Anyways. I don’t know where I recall smth like 70% of APIs are REST. I guess at some point who people developing APEX realized that developers are constantly exposing database functionality/entities in microservices world, and ORDS perfectly fits in that world. If you think about **serverless, functions and microservices**, you have be really fast. Fast deployment, fast execution, fast scaling, error resilient etc. Opening connections to database is expensive and time consuming, so it makes sense to expose data services. In that context it makes super sense to use them. And APEX is free, ORDS is **completely free**.

q2 (George): completely free for which version ?

As long as you have an Oracle Database (any edition) you can have ORDS. Distributed with OTN license, which says non-production usage is free. For production and support it is bound to your database license for (My Oracle Support) MOS.

You can have XE database and ORDS in front of your database while developing your applications.

q3 (Alex): how do you install it? topology, how it can be enabled/installed;

Well if I may over simplify thins it is a Java servlet. So you need a container to host it. You may use Weblogic, or Tomcat or for development you can run Jetty serving ORDS in standalone mode.

Since Oracle is retiring OHS and mod\_plsql, you are entitled to host a WLS SE on the same server with your database. Or you can use Tomcat.

q4 (Theo): how it can enhance the functionality of your applications ->

Scalability,

Fits into microservices world,

auto rest, super fast, increased agility,

out of the box security;

q5 (Bilegt): exposing database tables, doesn't this creates security vulnerabilities?

Not exposing directly, two tier web application.

**====================== DEMO +++++++++++++++++++++++++**

q6 (George): have you installed it ? ->on Autonomous is configured by default, fully managed

q7 (Alex): how do I expose certain tables via autorest? -> show it to us

q8 (George): are this services documented somewhere? -> metadata

q9 (Theo): can anyone access it? -> enable authorization

q10 (Bilegt): Does ORDS support Oauth? -> yes, can do it from db itself or use thirdparty