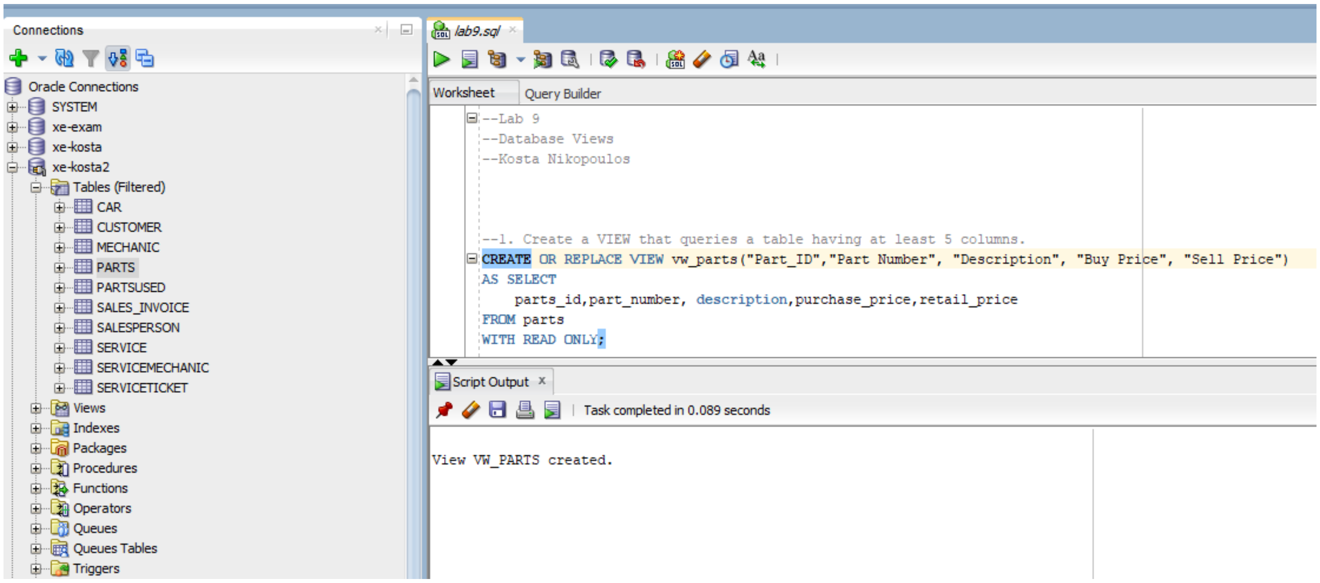
Kosta Nikopoulos
March 22nd, 2021

Lab 9 – Database Views

1. – Creating a single view

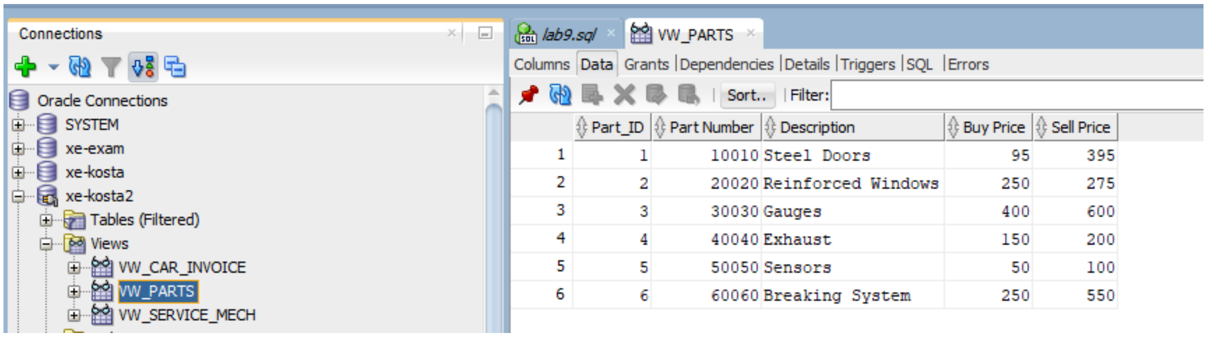


```
--Lab 9
--Database Views
--Kosta Nikopoulos



--1. Create a VIEW that queries a table having at least 5 columns.
CREATE OR REPLACE VIEW vw_parts("Part_ID","Part Number", "Description", "Buy Price", "Sell Price")
AS SELECT
    parts_id,part_number, description,purchase_price,retail_price
FROM parts
WITH READ ONLY;
```

Task completed in 0.089 seconds

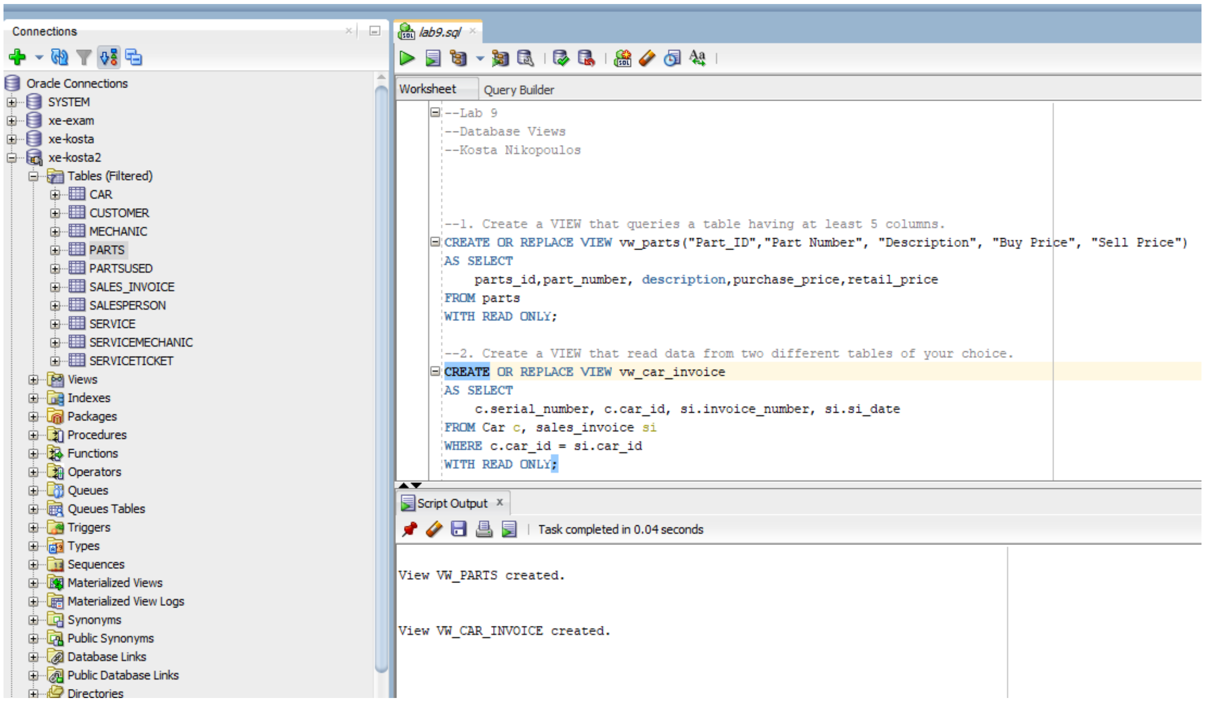
```
View VW_PARTS created.
```

--Parts View



	Part_ID	Part Number	Description	Buy Price	Sell Price
1	1	10010	Steel Doors	95	395
2	2	20020	Reinforced Windows	250	275
3	3	30030	Gauges	400	600
4	4	40040	Exhaust	150	200
5	5	50050	Sensors	50	100
6	6	60060	Breaking System	250	550

2. – Creating a view with 2 different tables



```
--Lab 9
--Database Views
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--1. Create a VIEW that queries a table having at least 5 columns.
CREATE OR REPLACE VIEW vw_parts("Part_ID","Part Number", "Description", "Buy Price", "Sell Price")
AS SELECT
    parts_id,part_number, description,purchase_price,retail_price
FROM parts
WITH READ ONLY;

--2. Create a VIEW that read data from two different tables of your choice.
CREATE OR REPLACE VIEW vw_car_invoice
AS SELECT
    c.serial_number, c.car_id, si.invoice_number, si.si_date
FROM Car c, sales_invoice si
WHERE c.car_id = si.car_id
WITH READ ONLY;
```
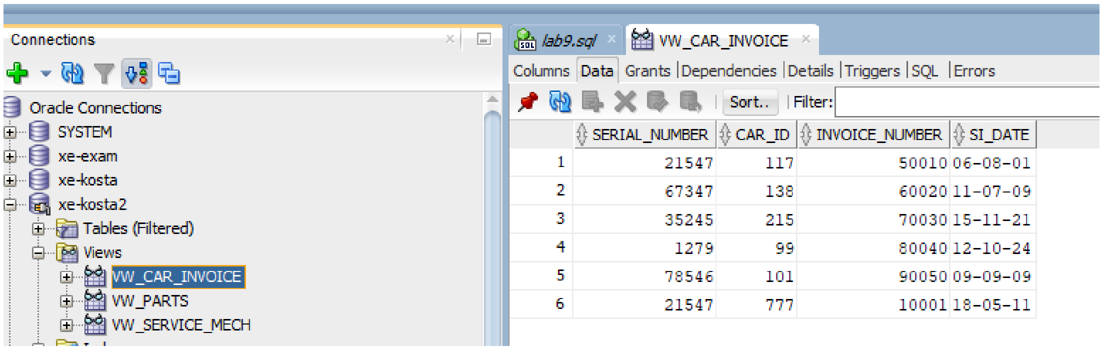

Task completed in 0.04 seconds

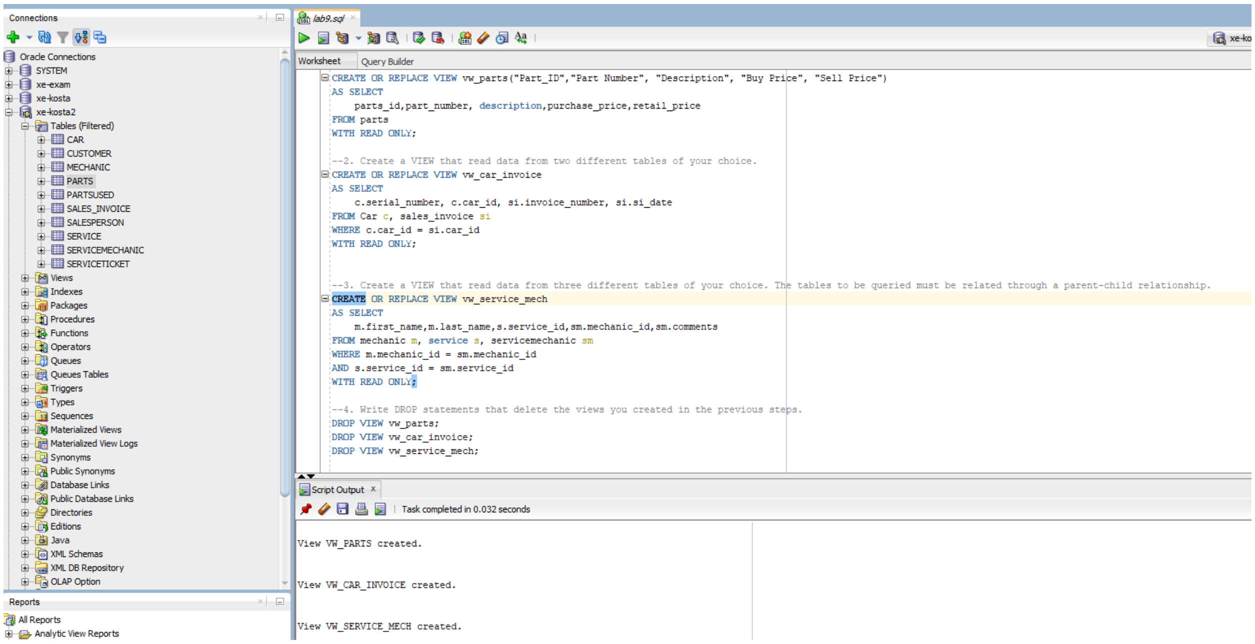
```
View VW_PARTS created.


View VW_CAR_INVOICE created.
```

--Car Invoice View



	SERIAL_NUMBER	CAR_ID	INVOICE_NUMBER	SI_DATE
1	21547	117	50010	06-08-01
2	67347	138	60020	11-07-09
3	35245	215	70030	15-11-21
4	1279	99	80040	12-10-24
5	78546	101	90050	09-09-09
6	21547	777	10001	18-05-11

3. –Creating a view with 3 different tables

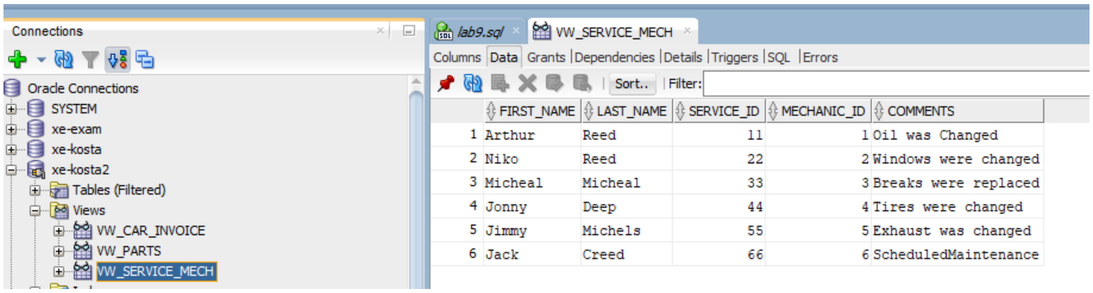


```
CREATE OR REPLACE VIEW vw_parts("Part_ID","Part Number", "Description", "Buy Price", "Sell Price")
AS SELECT
    parts_id,part_number, description,purchase_price,retail_price
FROM parts
WITH READ ONLY;

--2. Create a VIEW that read data from two different tables of your choice.
CREATE OR REPLACE VIEW vw_car_invoice
AS SELECT
    c.serial_number, c.car_id, si.invoice_number, si.si_date
FROM Car c, sales_invoice si
WHERE c.car_id = si.car_id
WITH READ ONLY;


--3. Create a VIEW that read data from three different tables of your choice. The tables to be queried must be related through a parent-child relationship.
CREATE OR REPLACE VIEW vw_service_mech
AS SELECT
    m.first_name,m.last_name,s.service_id,sm.mechanic_id,sm.comments
FROM mechanic m, service s, servicemechanic sm
WHERE m.mechanic_id = sm.mechanic_id
AND s.service_id = sm.service_id
WITH READ ONLY;

--4. Write DROP statements that delete the views you created in the previous steps.
DROP VIEW vw_parts;
DROP VIEW vw_car_invoice;
DROP VIEW vw_service_mech;
```

Task completed in 0.032 seconds

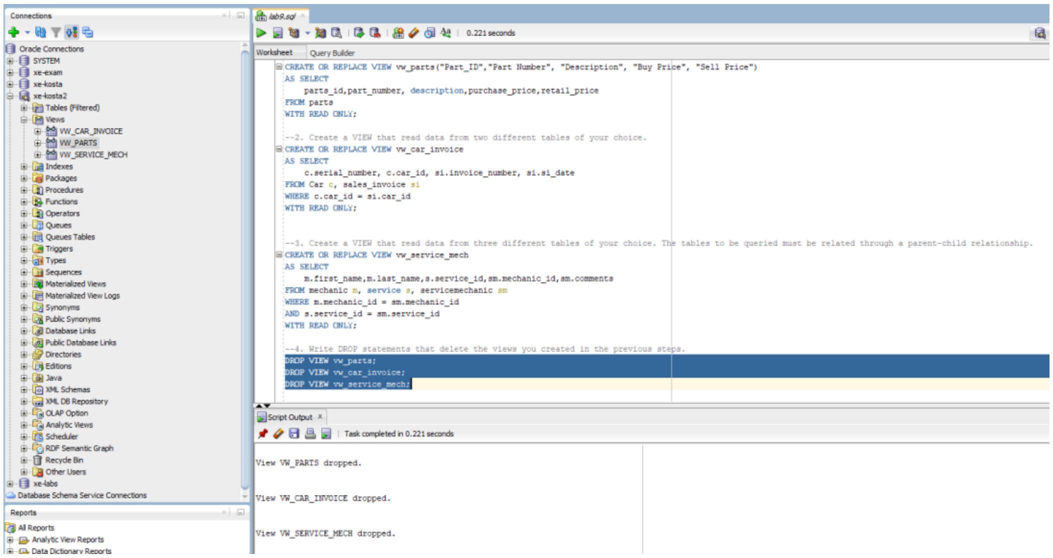
```
View VW_PARTS created.


View VW_CAR_INVOICE created.


View VW_SERVICE_MECH created.
```

--Service Mech View



	FIRST_NAME	LAST_NAME	SERVICE_ID	MECHANIC_ID	COMMENTS
1	Arthur	Reed	11	1	Oil was Changed
2	Niko	Reed	22	2	Windows were changed
3	Micheal	Micheal	33	3	Breaks were replaced
4	Jonny	Deep	44	4	Tires were changed
5	Jimmy	Michels	55	5	Exhaust was changed
6	Jack	Creed	66	6	ScheduledMaintenance

4. –Dropping the views



```
CREATE OR REPLACE VIEW vw_parts("Part_ID","Part Number", "Description", "Buy Price", "Sell Price")
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    parts_id,part_number, description,purchase_price,retail_price
FROM parts
WITH READ ONLY;

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AS SELECT
    c.serial_number, c.car_id, si.invoice_number, si.si_date
FROM Car c, sales_invoice si
WHERE c.car_id = si.car_id
WITH READ ONLY;


--3. Create a VIEW that read data from three different tables of your choice. The tables to be queried must be related through a parent-child relationship.
CREATE OR REPLACE VIEW vw_service_mech
AS SELECT
    m.first_name,m.last_name,s.service_id,sm.mechanic_id,sm.comments
FROM mechanic m, service s, servicemechanic sm
WHERE m.mechanic_id = sm.mechanic_id
AND s.service_id = sm.service_id
WITH READ ONLY;

--4. Write DROP statements that delete the views you created in the previous steps.
DROP VIEW vw_parts;
DROP VIEW vw_car_invoice;
DROP VIEW vw_service_mech;
```

Task completed in 0.221 seconds

```
View VW_PARTS dropped.


View VW_CAR_INVOICE dropped.


View VW_SERVICE_MECH dropped.
```