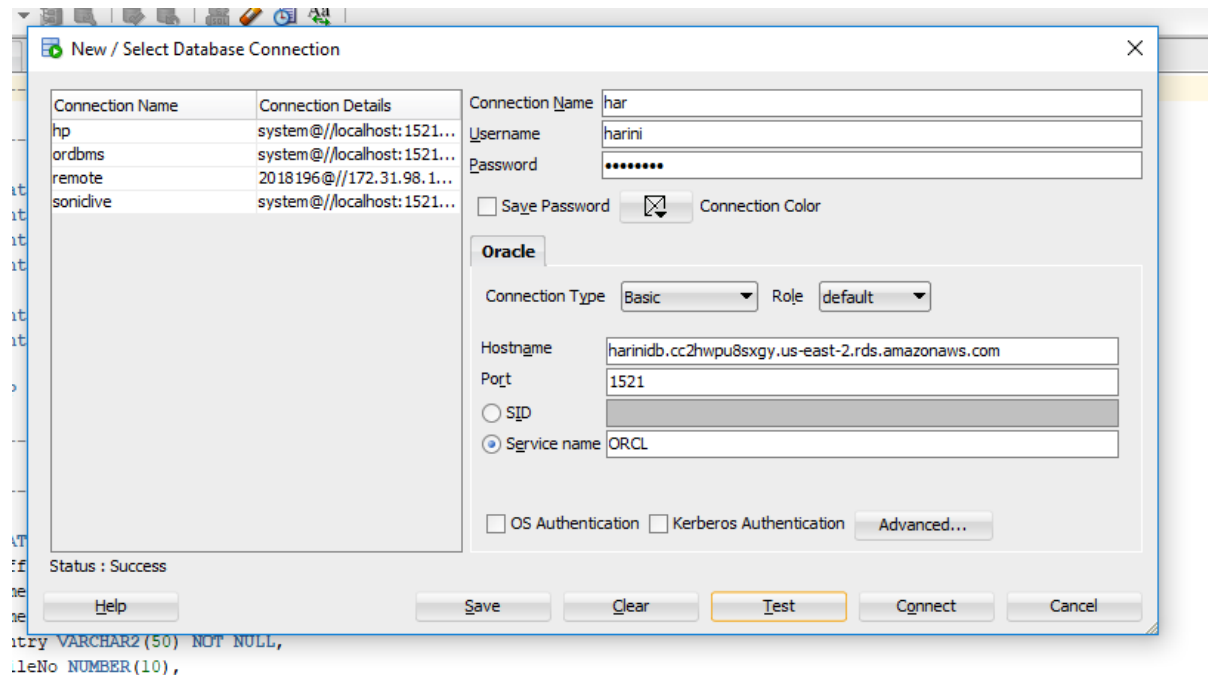


Q.5 Creating remote database in AWS



Creating a user and granting access

```
create user user_harini identified by <password>;
```

```
grant connect to user_harini;
```

```
grant resource to user_harini;
```

```
grant create view to user_harini;
```

```
grant select on staff to public;
```

```
grant create database link to user_harini;
```

```
-----  
/*USER PERMISSIONS */  
-----  
  
create user user_harini identified by user_harini;  
grant connect to user_harini;  
grant resource to user_harini;  
grant create view to user_harini;  
  
grant select on staff to public;  
grant create database link to harini;  
  
DROP TABLE manager_remote_aws CASCADE CONSTRAINTS;
```

Script Output x

Task completed in 1.845 seconds

Grant succeeded.

User USER_HARINI created.

Grant succeeded.

Horizontal shading

Staff relation horizontally distributed between remote and local server, by assuming remote server contain manager details belong to out of London branches and local server include.

```
select * from manager_staff_aws;
```

Script Output x Query... x

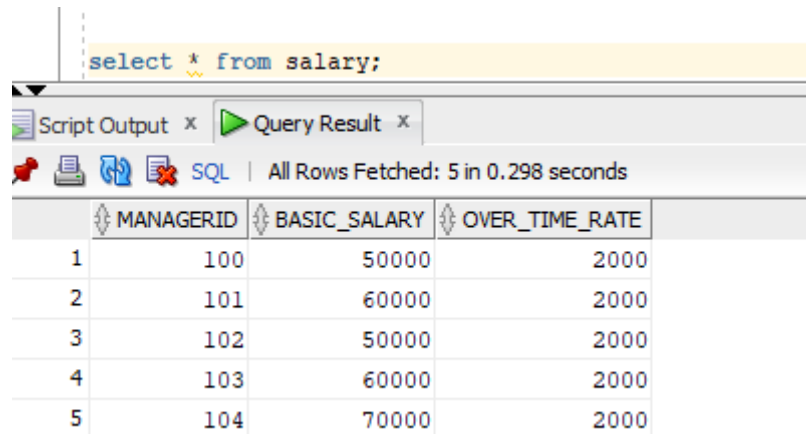
SQL | All Rows Fetched: 2 in 0.901 seconds

	MANAGERID	FNAME	LNAME	TITLE	BASIC_SALARY	OVER_TIME_RATE
1	5	Senal	Andrew	Mr	60000	1000
2	8	Ann	Rodrik	Ms	50000	1000

Vertical shading

Salary details of managers put in remote server and other personnel information put in local server.

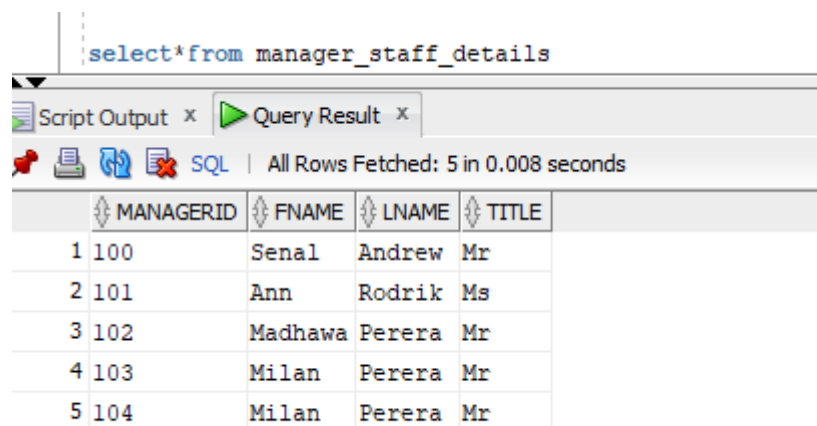
Remote connection



The screenshot shows the SQL Developer interface with a query window containing the SQL statement `select * from salary;`. Below the query window, the 'Query Result' tab is active, displaying a table with 5 rows and 3 columns: `MANAGERID`, `BASIC_SALARY`, and `OVER_TIME_RATE`. The status bar indicates 'All Rows Fetched: 5 in 0.298 seconds'.

	MANAGERID	BASIC_SALARY	OVER_TIME_RATE
1	100	50000	2000
2	101	60000	2000
3	102	50000	2000
4	103	60000	2000
5	104	70000	2000

Local server



The screenshot shows the SQL Developer interface with a query window containing the SQL statement `select * from manager_staff_details`. Below the query window, the 'Query Result' tab is active, displaying a table with 5 rows and 4 columns: `MANAGERID`, `FNAME`, `LNAME`, and `TITLE`. The status bar indicates 'All Rows Fetched: 5 in 0.008 seconds'.

	MANAGERID	FNAME	LNAME	TITLE
1	100	Senal	Andrew	Mr
2	101	Ann	Rodrik	Ms
3	102	Madhawa	Perera	Mr
4	103	Milan	Perera	Mr
5	104	Milan	Perera	Mr

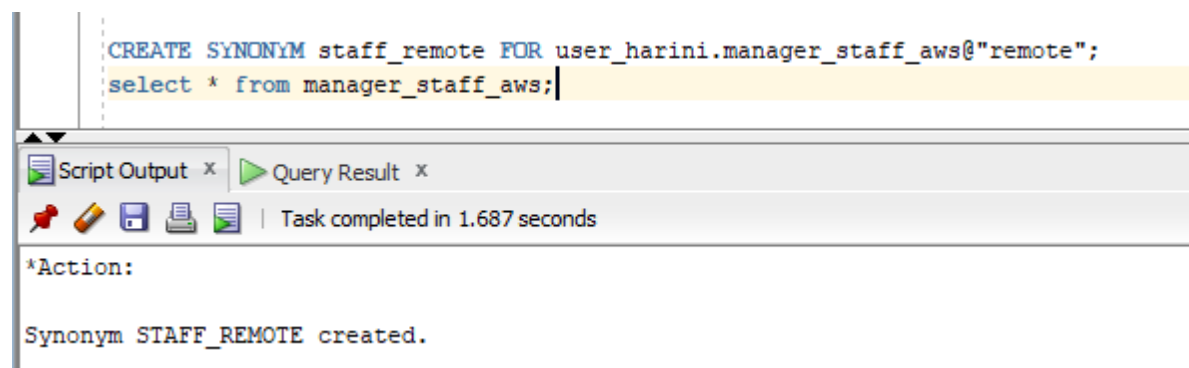
Creating remote database link

```
create database link "remote" connect to user_harini identified by user_harini using  
'harinidb.*****.amazonaws.com/ORCL';
```

```
CREATE SYNONYM manager_remote FOR user_harini.manager_staff_aws@"remote";  
select * from manager_remote;
```

DROP SYNONYM manager_remote

```
CREATE SYNONYM salary_remote FOR user_harini.salary_remote@"remote";  
select * from salary_remote;
```



/*Creating Horizontal view*/

```
create view global_manager as (  
select * from manager_staff  
union  
select * from manager_remote  
);
```

```
select * from global_manager;
```

/*Creating Vertical view*/

```
create view manager_details_with_salary as (  
select *  
from salary_remote as msl  
inner join mamager_staff_details as mdl  
msl.managerid = mdl.managerid  
);
```

```
select * from manager_details_with_salary;
```

/*Creating horzantal and vertical view*/

```
create view manager_information_global as (  
select *  
from salary_remote as msl  
inner join manager_staff_remote as r_manager  
on msl.managerid = r_manager.managerid  
inner join manager_staff as l_manager  
r_manager.managerid = l_manager.managerid  
);
```

```
select * from manager_information_global
```