Important Note: For the given requirements, remove DUPLICATE records wherever applicable.

A. Display **firstname, lastname** and **city** of those teacher(s) who are available in 'Pune' or 'Mysore'. Perform **case sensitive** search.
For the given sample data, following is the expected output.

FIRSTNAME	LASTNAME	CITY
Jecy	Mac	Pune
Kiem	David	Mysore

Note: Type the solution in ***dbms_solA.sql*** file. **[2 marks]**

B. Display **subjectid** and **firstname** of the teacher(s) who are in charge of the subject and whose salary is greater than 5000.
For the given sample data, following record will feature as part of the output along with other record(s).

SUBJECTID	FIRSTNAME
S401	James

Note: Type the solution in ***dbms_solB.sql*** file. **[2 marks]**

C. Display **subjectname** and **noofdays** of those subject(s) which have noofdays same or more than the *average* noofdays of all the subjects.
For the given sample data, following record will feature as part of the output along with other record(s).

SUBJECTNAME	NOOFDAYS
JEE	12

Note: Type the solution in ***dbms_solC.sql*** file. **[2 marks]**

D. Display **teacherid** and **city** of those teacher(s) who belong to the same city and whose firstname contains 'A' or 'E' anywhere. Perform **case insensitive** se
For the given sample data, following records will feature as part of the output along with other record(s).

TEACHERID	CITY

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E. Identify teacher(s) who have been allocated a subject to deliver in 'VCR' mode and is in charge of any subject. Display the numeric part of allocationid as **"ALLOCATION"** (column alias), **lastname** and **subjectname** of the subject allocated for the identified teacher(s).
For the given sample data, following is the expected output.

ALLOCATION	LASTNAME	SUBJECTNAME
561	Ronald	JEE

Note: Type the solution in ***dbms_solE.sql*** file.

[3 marks]

F. Identify the teacher(s) who are allocated with any subject(s) for the highest *total* noofdays with credit 4. Display **teacherid** and *total* noofdays as **"DAYS"** (column alias) for the identified teacher(s).
For the given sample data, following is the expected output.

TEACHERID	DAYS
T300	24

Note: Type the solution in ***dbms_solF.sql*** file

[3 marks]

G. Display **firstname,** subjectname as **"SUBJECT"** (column alias) and bonus as **"BONUS"** (column alias) for all the teachers. Display **'NS'** for **SUBJECT** and **'NB'** for **BONUS** if the teacher is not allocated with any subject or receiving bonus less than 700.
For the given sample data, following records will feature as part of the output along with other record(s).

FIRSTNAME	SUBJECT	BONUS
Nancy	SAP	800
Alex	NS	NB

Note: Type the solution in ***dbms_solG.sql*** file

[3 marks]

H. A query for a particular requirement is written using JOINS.

```
SELECT a.teacherid, a.subjectid, a.deliverymode
FROM allocation a JOIN allocation aa ON aa.teacherid=a.teacherid
WHERE aa.subjectid=a.subjectid AND aa.deliverymode<>a.deliverymode;
```

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T300	24

Note: Type the solution in ***dbms_solF.sql*** file

[3 marks]

G. Display **firstname,** subjectname as **"SUBJECT"** (column alias) and bonus as **"BONUS"** (column alias) for all the teachers. Display **'NS'** for **SUBJECT** and **'NB'** for **BON** teacher is not allocated with any subject or receiving bonus less than 700.
For the given sample data, following records will feature as part of the output along with other record(s).

FIRSTNAME	SUBJECT	BONUS
Nancy	SAP	800
Alex	NS	NB

Note: Type the solution in ***dbms_solG.sql*** file

[3 marks]

H. A query for a particular requirement is written using JOINS.

```
SELECT a.teacherid, a.subjectid, a.deliverymode
FROM allocation a JOIN allocation aa ON aa.teacherid=a.teacherid
WHERE aa.subjectid=a.subjectid AND aa.deliverymode<>a.deliverymode;
```

For the given sample data, following record will feature as part of the output along with other record(s).

TEACHERID	SUBJECTID	DELIVERYMODE
T300	S400	CLR

Rewrite the query using Correlated *Subquery* only.

Note: Type the solution in ***dbms_solH.sql*** file.

[3 marks]

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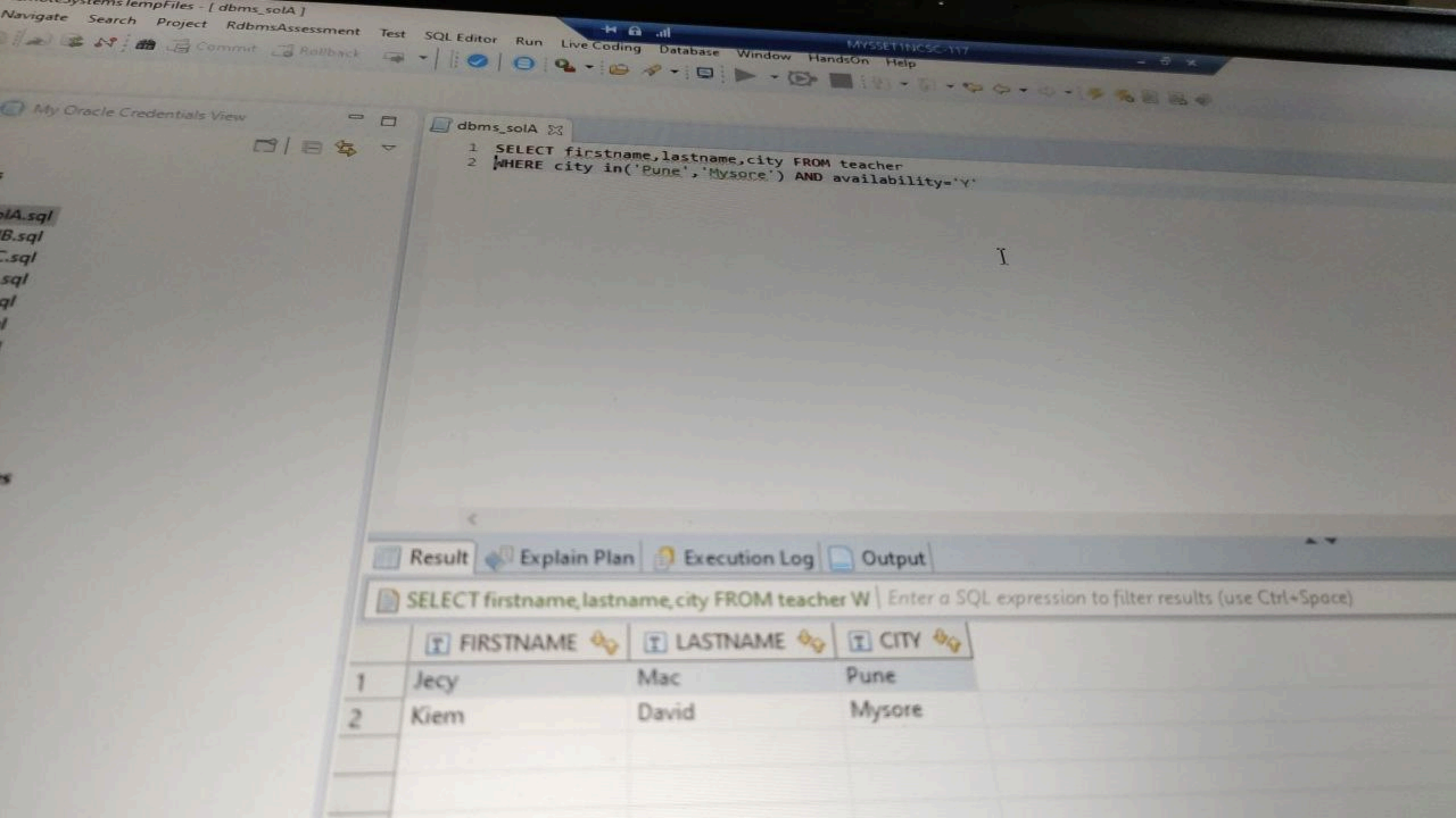
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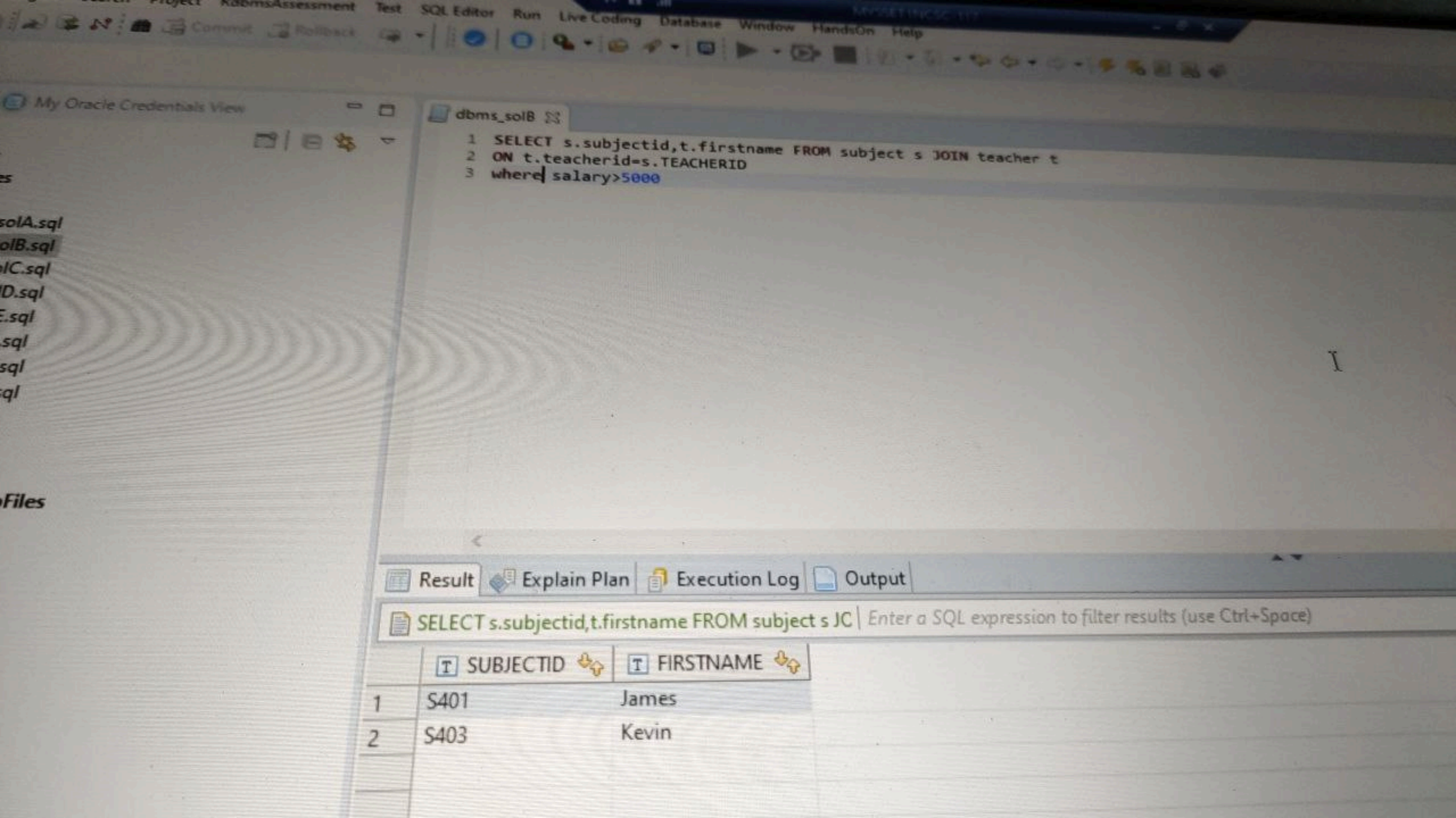
dbms_solA
1 SELECT firstname,lastname,city FROM teacher
2 WHERE city in('Pune','Mysore') AND availability='Y'
Result
Explain Plan
Execution Log
Output
SELECT firstname,lastname,city FROM teacher W
Enter a SQL expression to filter results (use Ctrl+Space)
FIRSTNAME
LASTNAME
CITY
1 Jecy Mac Pune
2 Kiem David Mysore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dbms_solB
1 SELECT s.subjectid,t.firstname FROM subject s JOIN teacher t
2 ON t.teacherid=s.TEACHERID
3 where salary>5000
solA.sql
olB.sql
lC.sql
D.sql
.sql
sql
sql
ql
Files
Result
Explain Plan
Execution Log
Output
SELECT s.subjectid,t.firstname FROM subject s JC
Enter a SQL expression to filter results (use Ctrl+Space)
SUBJECTID
FIRSTNAME
1 S401 James
2 S403 Kevin

Citrix Receiver | Remote Desktop Connection

https://iconnect.infosys.com/Citrix/INFOSYSAPPSTOREWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1615176329848

Eclipse - RemoteSystemsTempFiles - [dbms_solC]

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dbms_solA | dbms_solB | dbms_solC

```
1 SELECT subjectname,noofdays FROM subject WHERE noofdays>=(SELECT avg(noofdays) FROM subject);
```

Result | Explain Plan | Execution Log | Output

SELECT subjectname,noofdays FROM subj | Enter a SQL expression to filter results (use Ctrl+Space)

	SUBJECTNAME	NOOFDAYS
1	JEE	12
2	ICS	10

2 row(s) fetched - 16ms

Grid

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ENG 10:21 AM 3/8/2021

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10:21 08-03-2021

```
1 SELECT DISTINCT T1.TEACHERID,T1.CITY FROM TEACHER T1 INNER JOIN TEACHER T2 ON
2 T1.CITY=T2.CITY WHERE UPPER(T1.FIRSTNAME) LIKE '%A%'
3 OR UPPER(T1.FIRSTNAME) LIKE '%E%' GROUP BY T1.TEACHERID,T1.CITY HAVING COUNT(T2.CITY)>
```

Result | Explain Plan | Execution Log | Output

SELECT DISTINCT T1.TEACHERID,T1.CITY | Enter a SQL expression to filter results (use Ctrl+Space)

TEACHERID	CITY
T303	Pune
T306	Chennai
T300	Chennai
T305	Pune
T302	Delhi

v(s) fetched

Grid

Writable | Smart Insert | 3 : 88

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orrect .

dbms_solE

```
1  SELECT substr(allocationid,2) "ALLOCATION", lastname, subjectname
2  FROM allocation A INNER JOIN teacher T ON A.teacherid=T.teacherid
3  INNER JOIN subject S ON A.subjectid=S.subjectid
4  WHERE deliverymode='VCR' AND A.teacherid IN (SELECT teacherid FROM subject)
```

Result | Explain Plan | Execution Log | Output

Oracl...

dbms_solF

```
1  SELECT a.teacherid,sum(noofdays) "DAYS"
2  FROM subject s JOIN allocation a
3  ON s.subjectid=a.subjectid AND s.credit=4
4  GROUP BY a.teacherid
5  HAVING sum(noofdays)=(SELECT max(sum(noofdays))
6  FROM subject s JOIN allocation a
7  ON s.subjectid=a.subjectid AND s.credit=4
8  GROUP BY a.teacherid)
```

Result | Explain Plan | Execution Log | Output

Enter a SQL expression to filter results

dbms_solA dbms_solB dbms_solC dbms_solD dbms_solE dbms_solF dbms_solH dbms_solG

```
1 SELECT DISTINCT T.FIRSTNAME,NVL(S.SUBJECTNAME,'NS')"SUBJECT",NVL(TO_CHAR(A.BONUS),'NB')"BONUS"
2 FROM TEACHER T LEFT OUTER JOIN ALLOCATION A ON T.TEACHERID=A.TEACHERID AND A.BONUS>=700
3 LEFT OUTER JOIN SUBJECT S ON A.SUBJECTID=S.SUBJECTID
```

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dbms_solH

```
1 SELECT a.teacherid,a.subjectid,a.deliverymode FROM allocation a
2 WHERE EXISTS (SELECT 1 FROM allocation aa WHERE aa.teacherid=a.teacherid
3 AND (aa.subjectid=a.subjectid AND aa.deliverymode<>a.deliverymode));
```

Result | Explain Plan | Execution Log | Output

SELECT a.teacherid,a.subjectid,a.deliverym | Enter a SQL expression to filter results (use Ctrl+Space)

	TEACHERID	SUBJECTID	DELIVERYMODE
1	T300	S400	VCR
2	T300	S400	CLR

2 row(s) fetched - 15ms | Grid

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