

# DATA BASE LAB-3

Q 1: SELECT ename, job, deptno FROM emp WHERE job= 'CLERK';

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT ename, job, deptno FROM emp WHERE job= 'CLERK';
```

The Results tab shows the output of the query:

ENAME	JOB	DEPTNO
SMITH	CLERK	20
ADAMS	CLERK	20
JAMES	CLERK	30
MILLER	CLERK	10

4 rows returned in 0.01 seconds

CSV Export

Application Express 2.1.0.0.39  
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Language: en

30°C Mostly cloudy

Search

8:22 AM 6/18/2023

Q 02: SELECT ename, job, deptno FROM emp WHERE ename= 'JAMES';

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT ename, job, deptno FROM emp WHERE ename= 'JAMES';
```

The Results tab shows the output of the query:

ENAME	JOB	DEPTNO
JAMES	CLERK	30

1 rows returned in 0.00 seconds

CSV Export

Application Express 2.1.0.0.39  
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Language: en

30°C Mostly cloudy

Search

10.4 Kbps 1.8 Kbps

8:26 AM 6/18/2023

Q 03: SELECT ename, sal, comm FROM emp WHERE sal<=comm;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT ename, sal, comm FROM emp WHERE sal<=comm;
```

The results section shows a single row:

ENAME	SAL	COMM
MARTIN	1250	1400

1 rows returned in 0.00 seconds [CSV Export](#)

At the bottom of the screen, the Windows taskbar shows the date and time as 6/18/2023 8:29 AM.

Q 04: SELECT ename, sal FROM emp WHERE sal BETWEEN 1000 AND 1500;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT ename, sal FROM emp WHERE sal BETWEEN 1000 AND 1500;
```

The results section shows five rows:

ENAME	SAL
WARD	1250
MARTIN	1250
TURNER	1500
ADAMS	1100
MILLER	1300

5 rows returned in 0.01 seconds [CSV Export](#)

At the bottom of the screen, the Windows taskbar shows the date and time as 6/18/2023 8:33 AM.

**Q 5:** SELECT empno, ename, sal, mgr FROM emp WHERE mgr IN (7902, 7566, 7788);

The screenshot shows the Oracle Database Express Edition interface. The user is SCOTT. The SQL command entered is:

```
SELECT empno, ename, sal, mgr FROM emp WHERE mgr IN (7902, 7566, 7788);
```

The results are displayed in a table:

EMPNO	ENAME	SAL	MGR
7369	SMITH	800	7902
7788	SCOTT	3000	7566
7876	ADAMS	1100	7788
7902	FORD	3000	7566

4 rows returned in 0.00 seconds [CSV Export](#)

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**Q 6:** SELECT ename FROM emp WHERE ename LIKE '\_A%';

The screenshot shows the Oracle Database Express Edition interface. The user is SCOTT. The SQL command entered is:

```
SELECT ename FROM emp WHERE ename LIKE '_A%';
```

The results are displayed in a table:

ENAME
WARD
MARTIN
JAMES

3 rows returned in 0.00 seconds [CSV Export](#)

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Q7: SELECT ename, mgr FROM emp WHERE mgr IS NULL;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT ename, mgr FROM emp WHERE mgr IS NULL;
```

The results pane shows a single row:

ENAME	MGR
KING	-

Below the results, it says "1 rows returned in 0.00 seconds".

At the bottom of the screen, the Windows taskbar shows the date and time as "6/18/2023 8:44 AM".

Q8: SELECT empno, ename, job, sal FROM emp WHERE sal>=1100 AND job= 'CLERK';

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT empno, ename, job, sal FROM emp WHERE sal>=1100 AND job= 'CLERK';
```

The results pane shows two rows:

EMPNO	ENAME	JOB	SAL
7876	ADAMS	CLERK	1100
7934	MILLER	CLERK	1300

Below the results, it says "2 rows returned in 0.00 seconds".

At the bottom of the screen, the Windows taskbar shows the date and time as "6/18/2023 8:47 AM".

**Q 9:** SELECT empno, ename, job, sal FROM emp WHERE sal>=1100 OR job= 'CLERK';

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar displays various icons for applications like File Explorer, Internet Explorer, and Microsoft Edge. The system tray shows the date and time as 6/18/2023, 8:53 AM. The temperature is listed as 30°C with the condition 'Mostly cloudy'. The main window is titled 'SQL Commands' and is part of the 'ORACLE Database Express Edition' interface. The URL in the address bar is 127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO:::. The user is SCOTT. The SQL command entered is: SELECT empno, ename, job, sal FROM emp WHERE sal>=1100 OR job= 'CLERK';. The results section shows a table with 14 rows of data:

EMPNO	ENAME	JOB	SAL
7369	SMITH	CLERK	800
7499	ALLEN	SALESMAN	1600
7521	WARD	SALESMAN	1250
7566	JONES	MANAGER	2975
7654	MARTIN	SALESMAN	1250
7698	BLAKE	MANAGER	2850
7782	CLARK	MANAGER	2450
7788	SCOTT	ANALYST	3000
7839	KING	PRESIDENT	5000
7844	TURNER	SALESMAN	1500
7876	ADAMS	CLERK	1100
7900	JAMES	CLERK	950
7902	FORD	ANALYST	3000
7934	MILLER	CLERK	1300

14 rows returned in 0.00 seconds [CSV Export](#)

**Q 10:** SELECT ename, job FROM emp WHERE job NOT in ('CLERK', 'MANAGER', 'ANALYST');

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar displays various icons for applications like File Explorer, Internet Explorer, and Microsoft Edge. The system tray shows the date and time as 6/18/2023, 8:53 AM. The temperature is listed as 29°C with the condition 'Mostly cloudy'. The main window is titled 'SQL Commands' and is part of the 'ORACLE Database Express Edition' interface. The URL in the address bar is 127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO:::. The user is SCOTT. The SQL command entered is: SELECT ename, job FROM emp WHERE job NOT in ('CLERK', 'MANAGER', 'ANALYST');. The results section shows a table with 5 rows of data:

ENAME	JOB
ALLEN	SALESMAN
WARD	SALESMAN
MARTIN	SALESMAN
KING	PRESIDENT
TURNER	SALESMAN

5 rows returned in 0.00 seconds [CSV Export](#)

**Q 11:** SELECT ename, job, sal FROM emp WHERE (job='SALESMAN' OR job='PRESIDENT') AND sal>1500;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT ename, job, sal FROM emp WHERE (job='SALESMAN' OR job='PRESIDENT') AND sal>1500;
```

The Results tab shows the output:

ENAME	JOB	SAL
ALLEN	SALESMAN	1600
KING	PRESIDENT	5000

2 rows returned in 0.00 seconds

CSV Export

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**Q 12:** SELECT ename, job, sal FROM emp WHERE job='SALESMAN' OR job='PRESIDENT' AND sal>1500;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT ename, job, sal FROM emp WHERE job='SALESMAN' OR job='PRESIDENT' AND sal>1500;
```

The Results tab shows the output:

ENAME	JOB	SAL
ALLEN	SALESMAN	1600
WARD	SALESMAN	1250
MARTIN	SALESMAN	1250
KING	PRESIDENT	5000
TURNER	SALESMAN	1500

5 rows returned in 0.01 seconds

CSV Export

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Q 13: SELECT ename, job, deptno, hiredate FROM emp ORDER BY hiredate;

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar includes icons for various applications like File Explorer, Task View, and browser tabs. The system tray shows network connectivity details: 5.9 Kbps upload, 0.4 Kbps download, and a date/time of 9:06 AM on 6/18/2023.

The main window is titled "SQL Commands" and is connected to "127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO::". It displays the output of the following SQL query:

```
SELECT ename, job, deptno, hiredate FROM emp ORDER BY hiredate;
```

The results are presented in a table:

ENAME	JOB	DEPTNO	HIREDATE
SMITH	CLERK	20	17-DEC-80
ALLEN	SALESMAN	30	20-FEB-81
WARD	SALESMAN	30	22-FEB-81
JONES	MANAGER	20	02-APR-81
BLAKE	MANAGER	30	01-MAY-81
CLARK	MANAGER	10	09-JUN-81
TURNER	SALESMAN	30	08-SEP-81
MARTIN	SALESMAN	30	28-SEP-81
KING	PRESIDENT	10	17-NOV-81
JAMES	CLERK	30	03-DEC-81

Q 14: SELECT ename, job, deptno, hiredate FROM emp ORDER BY hiredate DESC;

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar includes icons for various applications like File Explorer, Task View, and browser tabs. The system tray shows network connectivity details: 2.6 Kbps upload, 0.0 Kbps download, and a date/time of 9:09 AM on 6/18/2023.

The main window is titled "SQL Commands" and is connected to "127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO::". It displays the output of the following SQL query:

```
SELECT ename, job, deptno, hiredate FROM emp ORDER BY hiredate DESC;
```

The results are presented in a table:

ENAME	JOB	DEPTNO	HIREDATE
ADAMS	CLERK	20	23-MAY-87
SCOTT	ANALYST	20	19-APR-87
MILLER	CLERK	10	23-JAN-82
FORD	ANALYST	20	03-DEC-81
JAMES	CLERK	30	03-DEC-81
KING	PRESIDENT	10	17-NOV-81
MARTIN	SALESMAN	30	28-SEP-81
TURNER	SALESMAN	30	08-SEP-81
CLARK	MANAGER	10	09-JUN-81
BLAKE	MANAGER	30	01-MAY-81
JONES	MANAGER	20	02-APR-81
WARD	SALESMAN	30	22-FEB-81
ALLEN	SALESMAN	30	20-FEB-81
SMITH	CLERK	20	17-DEC-80

Q 15: SELECT empno, ename, sal\*12 annsal FROM emp ORDER BY annsal;

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar includes icons for File Explorer, Task View, Edge browser, and other system utilities. The system tray shows network speeds of 6.7 Kbps and 0.4 Kbps, and a date/time of 9:12 AM on 6/18/2023.

The main window is titled "SQL Commands". The URL bar shows "127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO::". The SQL editor contains the following query:

```
SELECT empno, ename, sal*12 annsal FROM emp ORDER BY annsal;
```

Below the editor, the "Results" tab is selected, displaying the output of the query:

EMPNO	ENAME	ANNSAL
7369	SMITH	9600
7900	JAMES	11400
7876	ADAMS	13200
7521	WARD	15000
7654	MARTIN	15000
7934	MILLER	15600
7844	TURNER	18000
7499	ALLEN	19200
7782	CLARK	29400
7698	BLAKE	34200
7566	JONES	35700
7788	SCOTT	36000
7902	FORD	36000
7839	KING	60000

Q 16: SELECT ename, deptno, sal FROM emp ORDER BY deptno, sal DESC;

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar includes icons for File Explorer, Task View, Edge browser, and other system utilities. The system tray shows network speeds of 0.9 Kbps and 0.6 Kbps, and a date/time of 9:17 AM on 6/18/2023.

The main window is titled "SQL Commands". The URL bar shows "127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO::". The SQL editor contains the following query:

```
SELECT ename, deptno, sal FROM emp ORDER BY deptno, sal DESC;
```

Below the editor, the "Results" tab is selected, displaying the output of the query:

ENAME	DEPTNO	SAL
KING	10	5000
CLARK	10	2450
MILLER	10	1300
SCOTT	20	3000
FORD	20	3000
JONES	20	2975
ADAMS	20	1100
SMITH	20	800
BLAKE	30	2850
ALLEN	30	1600

Q 1: SELECT empno, ename, deptno, FROM emp WHERE ename = 'blank';

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window has the following details:

- Title bar: SQL Commands
- Address bar: 127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO::
- User: SCOTT
- Toolbar: Home, Logout, Help
- Menu: Home > SQL > SQL Commands
- Autocommit: checked
- Display: 15
- SQL Editor:

```
SELECT empno, ename, deptno, FROM emp WHERE ename = 'blank';
```
- Buttons: Save, Run
- Status Bar: Results, Explain, Describe, Saved SQL, History
- Message: ORA-00936: missing expression
- Bottom status bar: Language: en, Application Express 2.1.0.0.39, Copyright © 1999, 2006, Oracle. All rights reserved.

Q 2: SELECT empno, ename, deptno FROM emp WHERE LOWER(ename) = 'blake';

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window has the following details:

- Title bar: SQL Commands
- Address bar: 127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO::
- User: SCOTT
- Toolbar: Home, Logout, Help
- Menu: Home > SQL > SQL Commands
- Autocommit: checked
- Display: 15
- SQL Editor:

```
SELECT empno, ename, deptno FROM emp WHERE LOWER(ename) = 'blake';
```
- Buttons: Save, Run
- Status Bar: Results, Explain, Describe, Saved SQL, History
- Table Results:

EMPNO	ENAME	DEPTNO
7698	BLAKE	30
- Message: 1 rows returned in 0.00 seconds
- Buttons: CSV Export
- Bottom status bar: Language: en, Application Express 2.1.0.0.39, Copyright © 1999, 2006, Oracle. All rights reserved.

**Q3:** SELECT ename, CONCAT (ename, job), LENGTH(ename), INSTR(ename, 'A') FROM emp  
WHERE SUBSTR(job,1,5) = 'SALES';

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following query:

```
SELECT ename, CONCAT (ename, job), LENGTH(ename), INSTR(ename, 'A') FROM emp WHERE SUBSTR(job,1,5) = 'SALES';
```

The results are shown in a table:

ENAME	CONCAT(ENAME,JOB)	LENGTH(ENAME)	INSTR(ENAME,'A')
ALLEN	ALLENSALESMAN	5	1
WARD	WARDSALESMAN	4	2
MARTIN	MARTINSALESMAN	6	2
TURNER	TURNERSALESMAN	6	0

4 rows returned in 0.00 seconds [CSV Export](#)

Language: en Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

The system tray at the bottom shows the date and time: 9:39 AM 6/18/2023.

**Q4:** SELECT ROUND(45.923,2), ROUND(45.923,0), ROUND(45.923,-1) FROM DUAL;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following query:

```
SELECT ROUND(45.923,2), ROUND(45.923,0), ROUND(45.923,-1) FROM DUAL;
```

The results are shown in a table:

ROUND(45.923,2)	ROUND(45.923,0)	ROUND(45.923,-1)
45.92	46	50

1 rows returned in 0.00 seconds [CSV Export](#)

Language: en Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

The system tray at the bottom shows the date and time: 9:41 AM 6/18/2023.

Q 5: SELECT TRUNC(45.923,2), TRUNC(45.923), TRUNC(45.923,-1) FROM DUAL;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL query:

```
SELECT TRUNC(45.923,2), TRUNC(45.923), TRUNC(45.923,-1) FROM DUAL;
```

The results section shows the output:

TRUNC(45.923,2)	TRUNC(45.923)	TRUNC(45.923,-1)
45.92	45	40

1 rows returned in 0.01 seconds [CSV Export](#)

At the bottom of the screen, the Windows taskbar shows the date and time as 9:47 AM on 6/18/2023.

Q 6: SELECT ename, sal, comm, MOD(sal, comm) FROM emp WHERE job = 'SALESMAN';

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL query:

```
SELECT ename, sal, comm, MOD(sal, comm) FROM emp WHERE job = 'SALESMAN';
```

The results section shows the output:

ENAME	SAL	COMM	MOD(SAL,COMM)
ALLEN	1600	300	100
WARD	1250	500	250
MARTIN	1250	1400	1250
TURNER	1500	0	1500

4 rows returned in 0.00 seconds [CSV Export](#)

At the bottom of the screen, the Windows taskbar shows the date and time as 9:47 AM on 6/18/2023.

**Q.7:** SELECT ename, (SYSDATE-hiredate)/7 WEEKS FROM emp WHERE deptno = 10;

**Q 8:** SELECT ename, TO\_CHAR(hiredate, 'fmDD Month YYYY') HIREDATE FROM emp;

SQL Commands

Autocommit Display 15 Save Run

127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649:NO::

```
SELECT ename, TO_CHAR(hiredate, 'fmDD Month YYYY') HIREDATE FROM emp;
```

Results Explain Describe Saved SQL History

ENAME	HIREDATE
SMITH	17 December 1980
ALLEN	20 February 1981
WARD	22 February 1981
JONES	2 April 1981
MARTIN	28 September 1981
BLAKE	1 May 1981
CLARK	9 June 1981
SCOTT	19 April 1987
KING	17 November 1981
TURNER	8 September 1981
ADAMS	23 May 1987
JAMES	3 December 1981
FORD	3 December 1981
MILLER	23 January 1982

Cloud 29°C Mostly cloudy Search 90.5 Kbps 9:53 AM 6/18/2023

Q 9: SELECT TO\_CHAR(sal,'\$99,999') SALARY FROM emp WHERE ename = 'SCOTT';

The screenshot shows a browser window for Oracle Database Express Edition. The URL is 127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO:::. The page title is "SQL Commands". The user is SCOTT. The SQL query entered is: "SELECT TO\_CHAR(sal,'\$99,999') SALARY FROM emp WHERE ename = 'SCOTT';". The results show a single row with a salary of \$3,000. The bottom status bar indicates the query took 0.00 seconds and includes a CSV export link.

SALARY
\$3,000

1 rows returned in 0.00 seconds [CSV Export](#)

Language: en Application Express 2.1.0.0.39 Copyright © 1999, 2008, Oracle. All rights reserved.

Q 10: SELECT ename, sal, comm, (sal\*12)+NVL(comm,0) FROM emp;

The screenshot shows a browser window for Oracle Database Express Edition. The URL is 127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO:::. The page title is "SQL Commands". The SQL query entered is: "SELECT ename, sal, comm, (sal\*12)+NVL(comm,0) FROM emp;". The results show 14 rows of employee data with calculated salaries. The bottom status bar indicates the query took 0.00 seconds and includes a CSV export link.

ENAME	SAL	COMM	(SAL*12)+NVL(COMM,0)
SMITH	800	-	9600
ALLEN	1600	300	19500
WARD	1250	500	15500
JONES	2975	-	35700
MARTIN	1250	1400	16400
BLAKE	2850	-	34200
CLARK	2450	-	29400
SCOTT	3000	-	36000
KING	5000	-	60000
TURNER	1500	0	18000
ADAMS	1100	-	13200
JAMES	950	-	11400
FORD	3000	-	36000
MILLER	1300	-	15600

14 rows returned in 0.00 seconds [CSV Export](#)

Language: en Application Express 2.1.0.0.39 Copyright © 1999, 2008, Oracle. All rights reserved.

**Q 11:** SELECT job, sal, DECODE(job, 'ANALYST', SAL\*1.1, 'CLERK', SAL\*1.15, 'MANAGER', SAL\*1.20, SAL) REVISED\_SALARY FROM emp;

The screenshot shows the Oracle SQL Developer interface. The SQL Commands window contains the following SQL code:

```
SELECT job, sal, DECODE(job, 'ANALYST', SAL*1.1, 'CLERK', SAL*1.15, 'MANAGER', SAL*1.20, SAL) REVISED_SALARY FROM emp;
```

The Results tab displays the output of the query:

JOB	SAL	REVISED_SALARY
CLERK	800	920
SALESMAN	1600	1600
SALESMAN	1250	1250
MANAGER	2975	3570
SALESMAN	1250	1250
MANAGER	2850	3420
MANAGER	2450	2940
ANALYST	3000	3300
PRESIDENT	5000	5000
SALESMAN	1500	1500
CLERK	1100	1265
CLERK	950	1092.5
ANALYST	3000	3300
CLERK	1300	1495

The system tray at the bottom shows the date and time as 6/18/2023, 9:58 AM.

**Q 12:** SELECT ename, NVL(TO\_CHAR(mgr), 'No Manager') FROM emp WHERE mgr IS NULL;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the following SQL code:

```
SELECT ename, NVL(TO_CHAR(mgr), 'No Manager') FROM emp WHERE mgr IS NULL;
```

The Results tab displays the output of the query:

ENAME	NVL(TO_CHAR(MGR), 'NOMANAGER')
KING	No Manager

The system tray at the bottom shows the date and time as 6/18/2023, 10:00 AM.

Q 1: SELECT AVG(sal), MAX(sal), MIN(sal), SUM(sal) FROM emp WHERE job LIKE 'SALES%';

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT AVG(sal), MAX(sal), MIN(sal), SUM(sal) FROM emp WHERE job LIKE 'SALES%';
```

The results section shows a single row of data:

AVG(SAL)	MAX(SAL)	MIN(SAL)	SUM(SAL)
1400	1600	1250	5600

1 rows returned in 0.00 seconds [CSV Export](#)

At the bottom of the screen, a Windows taskbar shows the date and time as 10:38 AM on 6/18/2023.

Q 2: SELECT MIN(hiredate), MAX(hiredate) FROM emp;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window displays the following SQL statement:

```
SELECT MIN(hiredate), MAX(hiredate) FROM emp;
```

The results section shows a single row of data:

MIN(HIREDATE)	MAX(HIREDATE)
17-DEC-80	23-MAY-87

1 rows returned in 0.00 seconds [CSV Export](#)

At the bottom of the screen, a Windows taskbar shows the date and time as 10:40 AM on 6/18/2023.

Q 3: SELECT COUNT(\*) FROM emp WHERE deptno = 30;

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL in the address bar is 127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO. The user is SCOTT. The SQL command entered is: `SELECT COUNT(*) FROM emp WHERE deptno = 30;`. The results section shows a single row with the value 6 under the header `COUNT(*)`. Below the results, it says "1 rows returned in 0.00 seconds". The bottom status bar shows "Language: en", "Application Express 2.1.0.00.39", and "Copyright © 1999, 2006, Oracle. All rights reserved.".

Q 4: SELECT COUNT(comm) FROM emp WHERE deptno = 30;

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL in the address bar is 127.0.0.1:8080/apex/f?p=4500:1003:1673672197180649::NO. The user is SCOTT. The SQL command entered is: `SELECT COUNT(comm) FROM emp WHERE deptno = 30;`. The results section shows a single row with the value 4 under the header `COUNT(COMM)`. Below the results, it says "1 rows returned in 0.00 seconds". The bottom status bar shows "Language: en", "Application Express 2.1.0.00.39", and "Copyright © 1999, 2006, Oracle. All rights reserved.".

Q 5: SELECT AVG(comm) FROM emp;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands page displays the query `SELECT AVG(comm) FROM emp;`. The results section shows a single row with the value 550 under the heading `AVG(COMM)`. Below the results, it says "1 rows returned in 0.00 seconds". The browser's status bar at the bottom indicates "Language: en", "30°C Mostly cloudy", "Search", and network speeds of "12.4 Kbps" and "3.4 Kbps".

Q 6: SELECT AVG(NVL(comm,0)) FROM emp;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands page displays the query `SELECT AVG(NVL(comm,0)) FROM emp;`. The results section shows a single row with the value 157.142857142857142857142857 under the heading `AVG(NVL(COMM,0))`. Below the results, it says "1 rows returned in 0.00 seconds". The browser's status bar at the bottom indicates "Language: en", "30°C Mostly cloudy", "Search", and network speeds of "4.8 Kbps" and "1.2 Kbps".

Q 7: SELECT deptno, AVG(sal) FROM emp GROUP BY deptno;

Q 8: SELECT AVG(sal) FROM emp GROUP BY deptno;

Q 9: SELECT deptno, job, sum(sal) FROM emp GROUP BY deptno, job;

The screenshot shows the Oracle SQL Developer interface. The SQL Commands window contains the following SQL statement:

```
SELECT deptno, job, sum(sal) FROM emp GROUP BY deptno, job;
```

The Results tab displays the output of the query:

DEPTNO	JOB	SUM(SAL)
20	CLERK	1900
30	SALESMAN	5600
20	MANAGER	2975
30	CLERK	950
10	PRESIDENT	5000
30	MANAGER	2850
10	CLERK	1300
10	MANAGER	2450
20	ANALYST	6000

Below the results, it says "9 rows returned in 0.00 seconds". The system status bar at the bottom shows "30°C Mostly cloudy" and "10:54 AM 6/18/2023".

Q 10: SELECT deptno, max(sal) FROM emp GROUP BY deptno HAVING max(sal)>2900;

The screenshot shows the Oracle SQL Developer interface. The SQL Commands window contains the following SQL statement:

```
SELECT deptno, max(sal) FROM emp GROUP BY deptno HAVING max(sal)>2900;
```

The Results tab displays the output of the query:

DEPTNO	MAX(SAL)
20	3000
10	5000

Below the results, it says "2 rows returned in 0.00 seconds". The system status bar at the bottom shows "30°C Mostly cloudy" and "10:58 AM 6/18/2023". The footer also includes "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."

**Q 11:** SELECT job, SUM(sal) PAYROLL FROM emp WHERE job NOT LIKE 'SALES%' GROUP BY job HAVING SUM(sal)>5000 ORDER BY SUM(sal);

User: SCOTT

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Autocommit

```
SELECT      job, SUM(sal) PAYROLL FROM emp WHERE job NOT LIKE 'SALES%' GROUP BY job HAVING SUM(sal)>5000 ORDER BY SUM(sal);
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

JOB	PAYROLL
ANALYST	6000
MANAGER	8275

2 rows returned in 0.00 seconds [CSV Export](#)

Application Express 2.1.0.00.39

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**Q 12:** SELECT max(avg(sal)) FROM emp GROUP BY deptno;