

DATABASE LAB

➡ SQL COMMANDS

1.SHOW ALL DATA FROM A SPECIFIC TABLE

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the query `SELECT * FROM EMP;`. The Results window displays the following table:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30

More than 10 rows available. Increase rows selector to view more rows.
10 rows returned in 0.00 seconds [CSV Export](#)

2.SHOW A SINGLE COLUMN

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the query `SELECT ENAME FROM EMP;`. The Results window displays the following list of employee names:

ENAME
SMITH
ALLEN
WARD
JONES
MARTIN
BLAKE
CLARK
SCOTT
KING
TURNER

More than 10 rows available. Increase rows selector to view more rows.
10 rows returned in 0.00 seconds [CSV Export](#)

3.SHOW MULTIPLE COLUMN

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the query: `SELECT ENAME, SAL FROM EMP;`. The results pane displays a table with two columns: ENAME and SAL. The table contains 10 rows of data. The status bar indicates that 10 rows were returned in 0.00 seconds.

ENAME	SAL
SMITH	800
ALLEN	1600
WARD	1250
JONES	2975
MARTIN	1250
BLAKE	2850
CLARK	2450
SCOTT	3000
KING	5000
TURNER	1500

4.SHOW ALL COLUMNS FOR A SPECIFIC ROW

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the query: `SELECT* FROM EMP WHERE ENAME='WARD';`. The results pane displays a table with 8 columns: EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, and DEPTNO. The table contains 1 row of data. The status bar indicates that 1 row was returned in 0.00 seconds.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30

5. MODIFY TABLE DATA BY ARITHMETIC OPERATION

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

```
SELECT ENAME, SAL*2  
FROM EMP;
```

The results are displayed in a table with two columns: ENAME and SAL*2.

ENAME	SAL*2
SMITH	1600
ALLEN	3200
WARD	2500
JONES	5950
MARTIN	2500
BLAKE	5700
CLARK	4900
SCOTT	6000
KING	10000
TURNER	3000

10 rows returned in 0.00 seconds

6. CREATE NEW STATEMENT USING ALIAS COLUMNS

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

```
SELECT ENAME, SAL, SAL*2+100 AS BONUS  
FROM EMP;
```

The results are displayed in a table with three columns: ENAME, SAL, and BONUS.

ENAME	SAL	BONUS
SMITH	800	1700
ALLEN	1600	3300
WARD	1250	2600
JONES	2975	6050
MARTIN	1250	2600
BLAKE	2850	5800
CLARK	2450	5000
SCOTT	3000	6100
KING	5000	10100
TURNER	1500	3100

10 rows returned in 0.00 seconds

7.SHOW TABLE DATA USING CONCATENATION OPERATOR

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the following query:

```
SELECT 'SALARY'||' '||'OF'||' '||ENAME||' '||'IS'||' '||SAL AS "SALARY DETAILS"  
FROM EMP;
```

The query has been executed, and the results are displayed in a table titled "SALARY DETAILS". The table contains 10 rows of data, showing the salary for each employee. The results are as follows:

SALARY DETAILS
SALARY OF SMITH IS 800
SALARY OF ALLEN IS 1600
SALARY OF WARD IS 1250
SALARY OF JONES IS 2975
SALARY OF MARTIN IS 1250
SALARY OF BLAKE IS 2850
SALARY OF CLARK IS 2450
SALARY OF SCOTT IS 3000
SALARY OF KING IS 5000
SALARY OF TURNER IS 1500

Below the table, it states "More than 10 rows available. Increase rows selector to view more rows." and "10 rows returned in 0.00 seconds". The interface also shows the "Autocommit" checkbox checked and the "Display" dropdown set to "10".

8.CREATE TABLE

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the following query:

```
CREATE TABLE BOOKL  
(  
  BOOK VARCHAR(255),  
  LANGUAGE VARCHAR(255),  
  RELEASE VARCHAR(255),  
  COPIES INT,  
  AUTHOR VARCHAR(255)  
)
```

The query has been executed, and the results are displayed as "Table created." and "0.05 seconds". The interface also shows the "Autocommit" checkbox checked and the "Display" dropdown set to "10".

9.SHOW DESCRIPTION OF A TABLE

The screenshot shows the Oracle Database Express Edition interface. The user is logged in as SCOTT. The SQL Commands window is active, showing the command 'DESC BOOK'. The results pane displays the table structure for 'BOOK'.

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BOOK	BOOK	Varchar2	255	-	-	-	✓	-	-
	LANGUAGE	Varchar2	255	-	-	-	✓	-	-
	RELEASE	Varchar2	255	-	-	-	✓	-	-
	COPIES	Number	-	-	0	-	✓	-	-
	AUTHOR	Varchar2	255	-	-	-	✓	-	-

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10.INSERT DATA INTO CREATED TABLE

The screenshot shows the Oracle Database Express Edition interface. The user is logged in as SCOTT. The SQL Commands window is active, showing the command 'INSERT INTO BOOK (BOOK, LANGUAGE, RELEASE, COPIES, AUTHOR) VALUES ('THE LORD OF THE RINGS', 'ENGLISH', '29/08/1954', 7, 'JRR TOLKIEN')'. The results pane displays the message '1 row(s) inserted.' and '0.02 seconds'.

```
INSERT INTO BOOK (BOOK, LANGUAGE, RELEASE, COPIES, AUTHOR)
VALUES ('THE LORD OF THE RINGS', 'ENGLISH', '29/08/1954', 7, 'JRR TOLKIEN')
```

1 row(s) inserted.
0.02 seconds

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11.SHOW DATA OF CREATED TABLE

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:4383972720236834::NO::

ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

Save Run

SELECT*
FROM BOOK

Results

Explain

Describe

Saved SQL

History

BOOK	LANGUAGE	RELEASE	COPIES	AUTHOR
THE LORD OF THE RINGS	ENGLISH	29/08/1954	7	JRR TOLKIEN
LE PETIT PRINCE	FRENCH	15/04/1943	5	ANTOINE
DREAM OF THE RED CHAMBER	CHINESE	01/01/1791	2	CAO XUEQIN
THE HOBBIT	ENGLISH	21/09/1937	6	JRR TOLKIEN
THE LORD OF RINGS	ENGLISH	29.07.1954	7	JRR TOLKEN

5 rows returned in 0.02 seconds

CSV Export

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