

# Some basic SQL COMMANDS/STATEMENTS

## 1. SELECTING ALL COLUMNS

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the query `SELECT * FROM EMP;`. The results pane displays a table with 10 rows and 8 columns: EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, and DEPTNO. The data is as follows:

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

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".

## 2. SELECTION (SELECTING A SINGLE ROW)

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the query `SELECT * FROM EMP WHERE ENAME='SMITH';`. The results pane displays a single row with the same 8 columns as the previous query. The data is as follows:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20

Below the table, it states: "1 rows returned in 0.00 seconds".

### 3. PROJECTION (SELECTING ONLY ONE COLUMN)

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the query: `SELECT ENAME FROM EMP;`. The results pane displays a table with one column, `ENAME`, containing 10 rows of employee names. The interface includes a top navigation bar, a SQL command window with a 'Run' button, and a results pane with a 'Results' tab.

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](#)

### 4. SELECTING SPECIFIC COLUMNS

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the query: `SELECT ENAME, JOB FROM EMP;`. The results pane displays a table with two columns, `ENAME` and `JOB`, containing 10 rows of employee names and their job titles. The interface includes a top navigation bar, a SQL command window with a 'Run' button, and a results pane with a 'Results' tab.

ENAME	JOB
SMITH	CLERK
ALLEN	SALESMAN
WARD	SALESMAN
JONES	MANAGER
MARTIN	SALESMAN
BLAKE	MANAGER
CLARK	MANAGER
SCOTT	ANALYST
KING	PRESIDENT
TURNER	SALESMAN

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

## 5. USING ARITHMETIC OPERATORS

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

```
SELECT ENAME, SAL+900
FROM EMP;
```

The Results tab displays the output of the query:

ENAME	SAL+900
SMITH	1700
ALLEN	2500
WARD	2150
JONES	3075
MARTIN	2150
BLAKE	3750
CLARK	3350
SCOTT	3900
KING	5900
TURNER	2400

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

## 6. USING AIRTHMATIC OPERATORS (+, -, \*, ./)

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

```
SELECT ENAME, SAL*900+900
FROM EMP;
```

The Results tab displays the output of the query:

ENAME	SAL*900+900
SMITH	720900
ALLEN	1440900
WARD	1125900
JONES	2678400
MARTIN	1125900
BLAKE	2565900
CLARK	2205900
SCOTT	2700900
KING	4500900
TURNER	1350900

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

## 7. USING COLUMN ALIASES (AS STATEMENT)

SQL Commands

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New Tab

Maps

computer-shortcuts...

Other bookmarks

ORACLE Database Express Edition

User: SCOTT

Home Logout Help

Home > SQL > SQL Commands

Autocommit

Display | 10

Save

Run

SELECT ENAME AS NAME, SAL AS SALARY

FROM EMP;

Results Explain Describe Saved SQL History

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

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds

CSV Export

Language: en-gb

Application Express 2.1.0.0.39

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10/8/2022

## 8. CONCETANATION OPERATOR (|| OPERATOR)

SQL Commands

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ORACLE

Database Express Edition

User SCOTT

Home Logout Help

Home > SQL > SQL Commands

Autocommit

Display 10

Save

Run

SELECT ENAME || ' ' || 'IS' || ' ' || 'A' || ' ' || JOB AS DETAILS

FROM EMP;

Results Explain Describe Saved SQL History

DETAILS

SMITH IS A CLERK
ALLEN IS A SALESMAN
WARD IS A SALESMAN
JONES IS A MANAGER
MARTIN IS A SALESMAN
BLAKE IS A MANAGER
CLARK IS A MANAGER
SCOTT IS A ANALYST
KING IS A PRESIDENT
TURNER IS A SALESMAN
More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds CSV Export

Language: en-gb

Application Express 2.1.0.00.39

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## 9. CREATING A NEW TABLE

The screenshot shows the Oracle Database Express Edition interface. The browser address bar indicates the URL: 127.0.0.1:8080/apex/f?p=4500:1003:3493647318310767::NO::. The page title is "ORACLE Database Express Edition". The user is logged in as "SCOTT". The "SQL Commands" tab is active, and the "Autocommit" checkbox is checked. The "Display" dropdown is set to "10". The SQL command entered is:

```
CREATE TABLE HOMEWORK1(  
  NAME VARCHAR(255),  
  ID VARCHAR(255),  
  AGE INT,  
  CITY VARCHAR(255),  
  DEPARTMENT VARCHAR(255)  
);
```

The "Save" and "Run" buttons are visible. Below the command area, the "Results" tab is selected, showing the message "Table created." and the execution time "0.00 seconds". The footer of the application shows "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."

## 10. HOW TO INSERT DATA IN THE TABLE

The screenshot shows the Oracle Database Express Edition interface. The browser address bar indicates the URL: 127.0.0.1:8080/apex/f?p=4500:1003:3493647318310767::NO::. The page title is "ORACLE Database Express Edition". The user is logged in as "SCOTT". The "SQL Commands" tab is active, and the "Autocommit" checkbox is checked. The "Display" dropdown is set to "10". The SQL command entered is:

```
INSERT INTO HOMEWORK1  
VALUES('TISHAT','22-47019-1',22,'DHAKA','CSE');
```

The "Save" and "Run" buttons are visible. Below the command area, the "Results" tab is selected, showing the message "1 row(s) inserted." and the execution time "0.00 seconds". The footer of the application shows "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."