

LAB TASK IDB

1. Show all data associated in salgrade table.

=> SELECT * FROM salgrade;

The screenshot shows the Oracle Database Express Edition web interface. The browser address bar indicates the URL: 127.0.0.1:8080/apex/f?p=4500:1003:3123722265211079::NO::. The interface includes a top navigation bar with 'Home', 'Logout', and 'Help' links. Below this, the 'SQL Commands' window is active, showing the query 'SELECT * FROM salgrade;'. The 'Autocommit' checkbox is checked, and the 'Display' dropdown is set to 10. The 'Run' button is visible. Below the SQL window, the 'Results' window displays the query results in a table format. The table has three columns: 'GRADE', 'LOSAL', and 'HISAL'. There are five rows of data. Below the table, it states '5 rows returned in 0.02 seconds' and provides a 'CSV Export' link. The bottom status bar shows the application version 'Application Express 2.1.0.00.39' and the copyright notice 'Copyright © 1999, 2006, Oracle. All rights reserved.'.

| GRADE | LOSAL | HISAL |
|-------|-------|-------|
| 1 | 700 | 1200 |
| 2 | 1201 | 1400 |
| 3 | 1401 | 2000 |
| 4 | 2001 | 3000 |
| 5 | 3001 | 9999 |

2. Show deptno from dept table

=> SELECT deptno FROM dept;

The screenshot shows the Oracle Database Express Edition web interface. The browser tabs include 'Index', 'Object Browser', and 'SQL Commands'. The address bar shows the URL '127.0.0.1:8080/apex/f?p=4500:1003:3123722265211079::NO::'. The page title is 'ORACLE Database Express Edition'. The user is logged in as 'SCOTT'. The breadcrumb navigation is 'Home > SQL > SQL Commands'. The 'Autocommit' checkbox is checked, and the 'Display' dropdown is set to '10'. The 'Save' and 'Run' buttons are visible. The SQL command entered is 'SELECT deptno FROM dept;'. Below the command, the 'Results' tab is selected, showing a table with one column 'DEPTNO' and four rows with values 10, 20, 30, and 40. The status bar indicates '4 rows returned in 0.00 seconds' and provides a 'CSV Export' link. The footer shows 'Application Express 2.1.0.0.39' and 'Copyright © 1999, 2005, Oracle. All rights reserved.'.

User: SCOTT

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

SELECT deptno FROM dept;

Results Explain Describe Saved SQL History

| DEPTNO |
|--------|
| 10 |
| 20 |
| 30 |
| 40 |

4 rows returned in 0.00 seconds CSV Export

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3. Show 5% increment of salary from emp table for each of the employee (ENAME, SALARY, 5% INCREMENT)

=> SELECT ENAME, SAL, (SAL * 0.05) AS "5% INCREMENT" FROM emp;

The screenshot shows the Oracle SQL Developer interface. The top pane displays the SQL command: `SELECT ENAME, SAL, (SAL * 0.05) AS "5% INCREMENT" FROM emp;`. The bottom pane shows the results of the query in a table format. The table has three columns: ENAME, SAL, and 5% INCREMENT. The results list 10 employees: SMITH, ALLEN, WARD, JONES, MARTIN, BLAKE, CLARK, SCOTT, KING, and TURNER. Below the table, it indicates that more than 10 rows are available and that 10 rows were returned in 0.00 seconds. A CSV Export link is also present.

| ENAME | SAL | 5% INCREMENT |
|--------|------|--------------|
| SMITH | 800 | 40 |
| ALLEN | 1600 | 80 |
| WARD | 1250 | 62.5 |
| JONES | 2975 | 148.75 |
| MARTIN | 1250 | 62.5 |
| BLAKE | 2850 | 142.5 |
| CLARK | 2450 | 122.5 |
| SCOTT | 3000 | 150 |
| KING | 5000 | 250 |
| TURNER | 1500 | 75 |

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

4. Show the new salary after increment (from 3) for each of the employee in emp table

=> SELECT ENAME, SAL + (SAL * 0.05) AS "NEW SALARY" FROM emp;

The screenshot shows the Oracle SQL Developer interface. The top pane displays the SQL command: `SELECT ENAME, SAL + (SAL * 0.05) AS "NEW SALARY" FROM emp;`. The bottom pane shows the results of the query in a table format.

| ENAME | NEW SALARY |
|--------|------------|
| SMITH | 840 |
| ALLEN | 1680 |
| WARD | 1312.5 |
| JONES | 3123.75 |
| MARTIN | 1312.5 |
| BLAKE | 2992.5 |
| CLARK | 2572.5 |
| SCOTT | 3150 |
| KING | 5250 |
| TURNER | 1575 |

Below the table, it states: "More than 10 rows available. Increase rows selector to view more rows." At the bottom left of the results pane, it says "10 rows returned in 0.00 seconds" and provides a "CSV Export" link. The Windows taskbar at the bottom shows the time as 8:40 AM on 7/16/2023.

5. Show all the associated information of the employee named “BLAKE”.

=> SELECT * FROM emp WHERE ENAME = 'BLAKE';

The screenshot displays the Oracle Database Express Edition web interface. The browser tabs include 'Index', 'Object Browser', and 'SQL Commands'. The address bar shows the URL '127.0.0.1:8080/apex/?p=4500:1003:3123722265211079:NO:'. The page title is 'ORACLE Database Express Edition'. The user is logged in as 'SCOTT'. The breadcrumb navigation shows 'Home > SQL > SQL Commands'. The 'Autocommit' checkbox is checked, and the 'Display' dropdown is set to '10'. The 'Save' and 'Run' buttons are visible. The SQL command entered is 'SELECT * FROM emp WHERE ENAME = 'BLAKE';'. Below the command, the 'Results' tab is selected, showing a table with the following data:

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|-------|---------|------|-----------|------|------|--------|
| 7698 | BLAKE | MANAGER | 7839 | 01-MAY-81 | 2850 | - | 30 |

Below the table, it states '1 rows returned in 0.02 seconds' and provides a 'CSV Export' link. The footer of the application shows 'Application Express 2.1.0.0.39' and 'Copyright © 1999, 2006, Oracle. All rights reserved.' The Windows taskbar at the bottom shows the date as 7/16/2023 and the time as 8:43 AM.

6. Run the SQL COMMAND to show the following output

=> SELECT ename || ' ' || ' is hired on ' || hiredate || ' as a ' || job FROM emp;

The screenshot shows a web browser window with the Oracle APEX interface. The browser tabs include 'Index', 'Object Browser', and 'SQL Commands'. The address bar shows the URL '127.0.0.1:8080/apex/f?p=4500:1003:3123722265211079::NO::'. The user is logged in as 'SCOTT'. The breadcrumb navigation shows 'Home > SQL > SQL Commands'. The 'Autocommit' checkbox is checked, and the 'Display' dropdown is set to '10'. The 'Save' and 'Run' buttons are visible. The SQL command entered is: `SELECT ename || ' ' || ' is hired on ' || hiredate || ' as a ' || job FROM emp;`. The results are displayed in a table with the following data:

| ENAME ' ' 'ISHIREDON' HIREDATE 'ASA' JOB |
|---|
| SMITH is hired on 17-DEC-80 as a CLERK |
| ALLEN is hired on 20-FEB-81 as a SALESMAN |
| WARD is hired on 22-FEB-81 as a SALESMAN |
| JONES is hired on 02-APR-81 as a MANAGER |
| MARTIN is hired on 28-SEP-81 as a SALESMAN |
| BLAKE is hired on 01-MAY-81 as a MANAGER |
| CLARK is hired on 09-JUN-81 as a MANAGER |
| SCOTT is hired on 19-APR-87 as a ANALYST |
| KING is hired on 17-NOV-81 as a PRESIDENT |
| TURNER is hired on 08-SEP-81 as a SALESMAN |

Below the table, it states: 'More than 10 rows available. Increase rows selector to view more rows.' The Windows taskbar at the bottom shows the date and time as 9:01 AM on 7/16/2023, with a temperature of 28°C and weather 'Haze'.

7. Show the description of all the four tables in the scott schema

=> DESCRIBE emp;

The screenshot shows the Oracle SQL Developer interface. The top bar includes tabs for Index, Object Browser, SQL Commands, and a plus sign. The address bar shows the URL: 127.0.0.1:8080/apex/f?p=4500:1003:3123722265211079:NO-. The main window displays the SQL Commands tab with the command `DESCRIBE emp;` entered. Below the command area, the Results tab is active, showing the table structure for EMP. The table has 10 columns: EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, and DEPTNO. The table is owned by SCOTT and is located in the SCOTT schema. The bottom status bar shows the language as en and the application as Oracle Express 2.1.0.0.39.

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|----------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| EMP | EMPNO | Number | - | 4 | 0 | 1 | - | - | - |
| | ENAME | Varchar2 | 10 | - | - | - | ✓ | - | - |
| | JOB | Varchar2 | 9 | - | - | - | ✓ | - | - |
| | MGR | Number | - | 4 | 0 | - | ✓ | - | - |
| | HIREDATE | Date | 7 | - | - | - | ✓ | - | - |
| | SAL | Number | - | 7 | 2 | - | ✓ | - | - |
| | COMM | Number | - | 7 | 2 | - | ✓ | - | - |
| | DEPTNO | Number | - | 2 | 0 | - | ✓ | - | - |

=> DESCRIBE DEPT;

The screenshot shows the Oracle SQL Developer interface. The top bar includes tabs for Index, Object Browser, SQL Commands, and a plus sign. The address bar shows the URL: 127.0.0.1:8080/apex/f?p=4500:1003:3123722265211079:NO-. The main window displays the SQL Commands tab with the command `DESCRIBE DEPT;` entered. Below the command area, the Results tab is active, showing the table structure for DEPT. The table has 3 columns: DEPTNO, DNAME, and LOC. The table is owned by SCOTT and is located in the SCOTT schema. The bottom status bar shows the language as en and the application as Oracle Express 2.1.0.0.39.

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| DEPT | DEPTNO | Number | - | 2 | 0 | 1 | - | - | - |
| | DNAME | Varchar2 | 14 | - | - | - | ✓ | - | - |
| | LOC | Varchar2 | 13 | - | - | - | ✓ | - | - |

=> DESCRIBE BONUS;

The screenshot shows the Oracle Database Express Edition interface. The user is SCOTT. The command entered is `DESCRIBE BONUS;`. The results are displayed in a table format.

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| BONUS | ENAME | Varchar2 | 10 | - | - | - | ✓ | - | - |
| | JOB | Varchar2 | 9 | - | - | - | ✓ | - | - |
| | SAL | Number | - | - | - | - | ✓ | - | - |
| | COMM | Number | - | - | - | - | ✓ | - | - |

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⇒ DESCRIBE SALGRADE;

The screenshot shows the Oracle Database Express Edition interface. The user is SCOTT. The command entered is `DESCRIBE SALGRADE;`. The results are displayed in a table format.

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|----------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| SALGRADE | GRADE | Number | - | - | - | - | ✓ | - | - |
| | LOSAL | Number | - | - | - | - | ✓ | - | - |
| | HISAL | Number | - | - | - | - | ✓ | - | - |

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8. Show all the possible jobs from the emp table eliminating the duplicate instances or output

=> SELECT DISTINCT job FROM emp;

The screenshot shows the Oracle Database Express Edition interface. The browser address bar indicates the URL `127.0.0.1:8080/apex/f?p=4500:1003:3123722265211079::NO::`. The user is logged in as SCOTT. The SQL Commands window contains the query `SELECT DISTINCT job FROM emp;`. Below the query, the results are displayed in a table with one column, 'JOB', and five rows: CLERK, SALESMAN, PRESIDENT, MANAGER, and ANALYST. The status bar at the bottom indicates '5 rows returned in 0.02 seconds' and provides a 'CSV Export' link. The Windows taskbar at the bottom shows the date and time as 9:10 AM on 7/16/2023.

Oracle Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT DISTINCT job FROM emp;
```

Results Explain Describe Saved SQL History

| JOB |
|-----------|
| CLERK |
| SALESMAN |
| PRESIDENT |
| MANAGER |
| ANALYST |

5 rows returned in 0.02 seconds [CSV Export](#)

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