

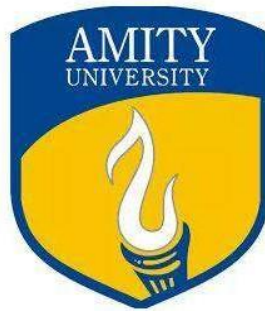
# **Database Management System**

**CSE201**

## **PRACTICAL FILE**

**Submitted to the**

**Amity University Uttar Pradesh**



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**AMITY UNIVERSITY UTTAR PRADESH**

**2022**

# INDEX

S.NO.	NAME OF EXPERIMENT	DATE OF EXPERIMENT	DATE OF SUBMISSION	FACULTY'S SIGNATURE
1.	Write a query in SQL to display the last name and job title of all employees who do not have a manager.			
2.	Write a query in SQL to display the last name, salary, and commission of all employees who earn commissions. Sort data in descending order of salary and commissions.			
3.	Write a query in SQL that prompts the user for a manager ID and generates the employee ID, last name, salary, and department for that manager's employees. The HR department wants the ability to sort the report on a selected column.			
4.	Write a query in SQL to Display all employee last names in which the third letter of the name is <i>a</i> .			
5.	Write a query in SQL to Display the last name of all employees who have both an <i>a</i> and an <i>e</i> in their last name.			
6.	Write a query in SQL to Display the last name, job, and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to \$2,500, \$3,500, or \$7,000.			
7.	Write a query in SQL to display the employee number, last name, salary, and salary increased by 15.5% (expressed as a whole number) for each employee. Label the column New Salary.			

8.	Create a report that produces the following for each employee: <employee last name> earns <salary> monthly but wants <3 times salary>. Label the column Dream Salaries.			
9.	Create a query to display the last name and salary for all employees. Format the salary to be 15 characters long, left-padded with the \$ symbol. Label the column SALARY.			
10.	E1 and E2 are two tables,write a query to display employee first name from E1 in upper case and label it as employee name.			
11.	Write a query retrieve the first character of employee last name from the table.			
12.	write a query to retrieve employee first name and last name in single column as full name where full name should be separated with space.			
13.	Write a query to display the records that are present in one table but not in another table.			
14.	Write a query to find the third highest salary from table.			

# THEORY:

---

**SQL** – structured query language.

**RDBMS** - A database management system that manages data as a collection of tables in which all relationships are represented by common values in related tables.

## **PURPOSE OF SQL-**

- SQL is used to communicate with a database. According to ANSI (American National Standards Institute), it is the standard language for relational database management systems.
- SQL statements are used to perform tasks such as update data on a database, or retrieve data from a database. Some common relational database management systems that use SQL are: Oracle, Sybase, Microsoft SQL Server, Microsoft Access, Ingres, etc.

## **DBMS LANGUAGES –**

### **Data Definition Language (DDL)-**

DDL is used for specifying the database schema. It is used for creating tables, schema, indexes, constraints etc. in database. Lets see the operations that we can perform on database using DDL:

1. To create the database instance – **CREATE**
2. To alter the structure of database – **ALTER**
3. To drop database instances – **DROP**
4. To delete tables in a database instance – **TRUNCATE**
5. To rename database instances – **RENAME**
6. To drop objects from database such as tables – **DROP**
7. To Comment – **Comment**

All of these commands either defines or update the database schema that's why they come under Data Definition language.

### **Data Manipulation Language (DML)-**

1. DML is used for accessing and manipulating data in a database. The following operations on database comes under DML:
  - A. To read records from table(s) – **SELECT**
  - B. To insert record(s) into the table(s) – **INSERT**

- C. Update the data in table(s) – **UPDATE**
- D. Delete all the records from the table – **DELETE**

## **Data Control language (DCL)-**

DCL is used for granting and revoking user access on a database –

1. To grant access to user – GRANT
2. To revoke access from user – REVOKE

## **Transaction Control Language(TCL)-**

The changes in the database that we made using DML commands are either performed or rolled back using TCL.

1. To persist the changes made by DML commands in database – COMMIT
2. To rollback the changes made to the database – ROLLBACK

## **Some of The Most Important SQL Commands-**

- SELECT - extracts data from a database
- UPDATE - updates data in a database
- DELETE - deletes data from a database
- INSERT INTO - inserts new data into a database
- CREATE DATABASE - creates a new database
- ALTER DATABASE - modifies a database
- CREATE TABLE - creates a new table
- ALTER TABLE - modifies a table
- DROP TABLE - deletes a table
- CREATE INDEX - creates an index (search key)
- DROP INDEX - deletes an index .

## **SYNTAX FOR THE COMMANDS-**

### **1. CREATE TABLE COMMAND-**

CREATE TABLE table\_name(

column1 datatype,  
column2 datatype,  
column3 datatype,  
.....

columnN datatype,  
PRIMARY KEY( one or more columns ));

## **2. UPDATE TABLE COMMAND -**

UPDATE *table\_name*  
SET *column1* = *value1*, *column2* = *value2*, ...  
WHERE *condition*;

## **3.DELETE COMMAND -**

DELETE FROM Customers WHERE CustomerName= 'NEWTON';

## **4.INSERT COMMAND-**

INSERT INTO *table\_name* (*column1*, *column2*, *column3*, ...)  
VALUES(*value1*, *value2*, *value3*, ...);

## **5.ALTER TABLE COMMAND-**

ALTER TABLE *table\_name* ADD *column\_name* datatype;

## **6.DROP TABLE COMMAND-**

DROP TABLE Shippers;

## **7.CREATE INDEX COMMAND-**

CREATE INDEX *idx\_lastname*  
ON Persons (LastName);

## **8.DROP INDEX COMMAND-**

DROP INDEX *index\_name* ON *table\_name*;

# EXPERIMENT-01

---

**AIM** - Write a query in SQL to display the last name and job title of all employees who do not have a manager.

## **PLATFORM USED** –

Oracle.

## **COMMANDS USED** –

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE BUSINESS
```

```
(
```

```
ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
JOB TITLE VARCHAR(30),
```

```
MANAGER VARCHAR(40)
```

```
);
```

### **2.INSERT COMMAND** –

```
INSERT INTO BUSINESS(ID,FIRST_NAME,LAST_NAME,JOB_TITLE,MANAGER)
```

```
VALUES(06,'AMIT','BANDA','CIO','JACKSON');
```

### **3.SELECT COMMAND-**

```
SELECT LAST_NAME,JOB TITLE FROM BUSINESS WHERE MANAGER = ''
```

# OUTPUTS:

The screenshot shows the Oracle Database Express Edition interface. The browser address bar displays the URL: 202.12.103.189:8080/apex/f?p=4500:1003:1472735005707243::NO::. The page title is "ORACLE Database Express Edition". The user is logged in as "User: ADE". 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:

```
create table business
(
  id int primary key,
  first_name varchar(10),
  last_name varchar(20),
  job_title varchar(30),
  manager varchar(40)
);
```

Below the command window, the output shows:

Table created.

0.05 seconds

The footer of the application shows "Application Express 2.1.0.00.20" and "Copyright © 1999, 2016, Oracle. All rights reserved."

The Windows taskbar is visible at the bottom of the screen. It includes the Start button, a search bar with the text "Type here to search", and several pinned application icons. The system tray on the right shows the date and time as "18:21 26-01-2022" and the weather as "16°C Haze".

The screenshot shows the Oracle Database Express Edition interface. The browser address bar displays the URL: 202.12.103.189:8080/apex/f?p=4500:1003:1472735005707243::NO::. The page title is "ORACLE Database Express Edition". The user is logged in as "User: ADE". 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:

```
insert into business(id,first_name,last_name,job_title,manager)
values(06,'Anit','Banda','CIO','Jackson');
```

Below the command window, the output shows:

1 row(s) inserted.

0.00 seconds

The footer of the application shows "Application Express 2.1.0.00.20" and "Copyright © 1999, 2016, Oracle. All rights reserved."

The Windows taskbar is visible at the bottom of the screen. It includes the Start button, a search bar with the text "Type here to search", and several pinned application icons. The system tray on the right shows the date and time as "18:36 26-01-2022" and the weather as "16°C Haze".



← → ↻ ⚠ Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:1472735005707243:NO::

**ORACLE** Database Express Edition

User: ABE

Home > SQL > SQL Commands

☒ Autocommit   Display: 10   Save Run

```
select last_name, job_title from business where manager = ' _ '
```

**Results**   Explain   Describe   Saved SQL   History

LAST_NAME	JOB_TITLE
neelam	DE
Janet	Project Manager
Bel	marketing Coordinator

3 rows returned in 0.03 seconds   [COPY EXPLAIN](#)

Language: en-us   Application Express 2.1.0.20.39  
Copyright © 1996, 2008, Oracle. All rights reserved.

Windows taskbar: Type here to search | 15°C Haze | 20:24 26-01-2022

# EXPERIMENT-02

---

**AIM** - Write a query in SQL to display the last name, salary, and commission of all employees who earn commissions. Sort data in descending order of salary and commissions.

---

## **PLATFORM USED** –

Oracle.

## **COMMANDS USED** –

### **1.CREATE TABLE COMMAND-**

```
CREATE TABLE AUTHOR  
(  
ID INT PRIMARY KEY,  
FIRST_NAME VARCHAR(10),  
LAST_NAME VARCHAR(20),  
SALARY INT,  
COMMISSION INT  
);
```

### **2.INSERT VALUES COMMAND-**

```
INSERT INTO AUTHOR(ID,FIRST_NAME, LAST_NAME, SALARY, COMMISSION)  
VALUES(01,'MORRIS','MANO',3000,1500);
```

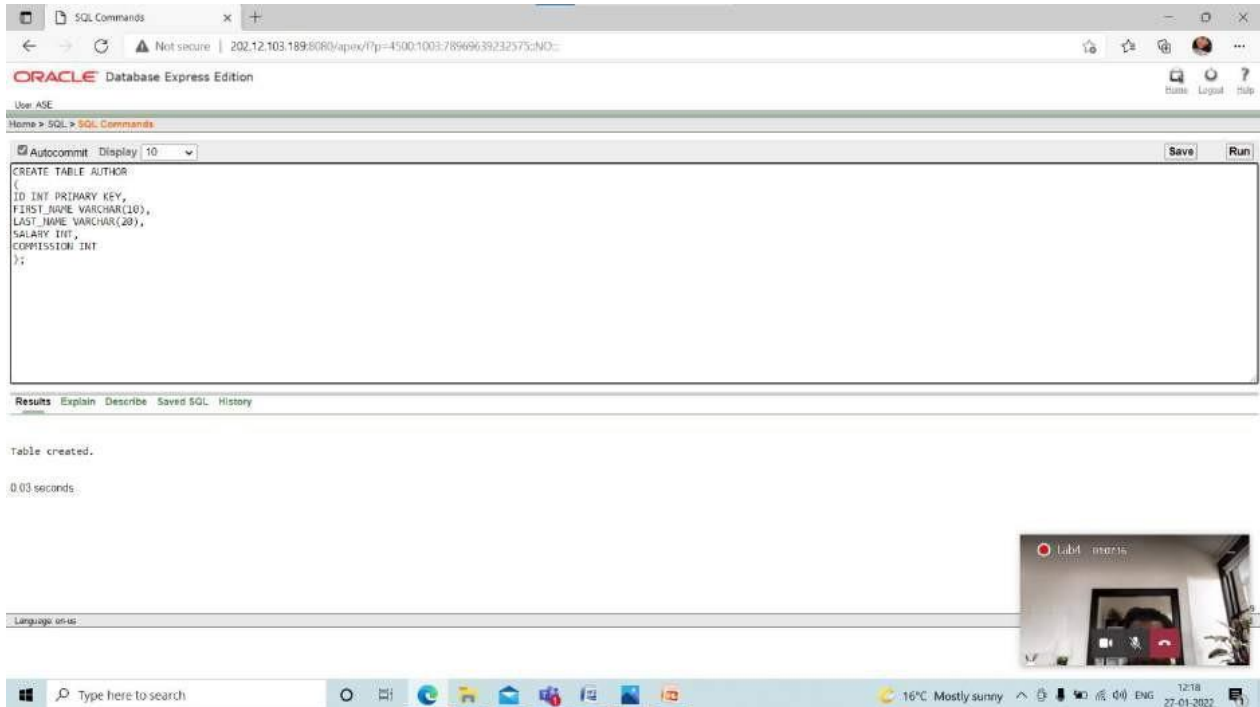
### **3.SELECT COMMAND-**

```
SELECT *FROM AUTHOR;  
  
AND  
  
SELECT LAST_NAME, SALARY, COMMISSION FROM AUTHOR WHERE COMMISSION>0;
```

### **4.DESC COMMAND-**

```
SELECT SALARY, COMMISSION FROM AUTHOR ORDER BY ID DESC;
```

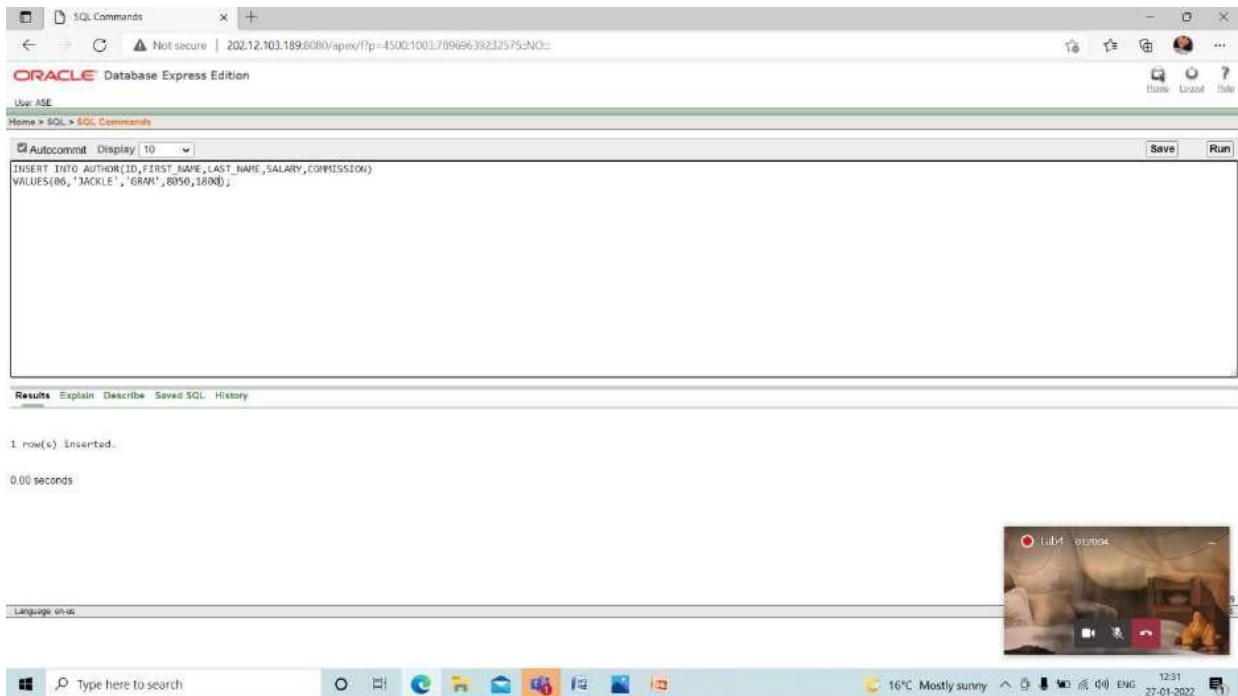
# OUTPUTS:



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

```
CREATE TABLE AUTHOR  
(  
  ID INT PRIMARY KEY,  
  FIRST_NAME VARCHAR(10),  
  LAST_NAME VARCHAR(20),  
  SALARY INT,  
  COMMISSION INT  
);
```

The output below the code indicates that the table was created successfully in 0.03 seconds. The status bar at the bottom shows the system time as 12:18 on 27-01-2022.



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

```
INSERT INTO AUTHOR (ID, FIRST_NAME, LAST_NAME, SALARY, COMMISSION)  
VALUES(86, 'SMCKLE', 'GRAN', 8050, 1800);
```

The output below the code indicates that 1 row(s) were inserted successfully in 0.00 seconds. The status bar at the bottom shows the system time as 12:31 on 27-01-2022.

SQL Commands x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:78969639232575::NO::

ORACLE Database Express Edition

User: ASE

Home > SQL > SQL Commands

☒ Autocommit Display: 10 Save Run

SELECT LAST\_NAME, SALARY, COMMISSION FROM AUTHOR WHERE COMMISSION=0;

Results Explain Describe Saved SQL History

LAST_NAME	SALARY	COMMISSION
MANO	3000	1500
GRAM	8050	1800
DENY	5000	1400

3 rows returned in 0.00 seconds CSV Export

Language: en-us

Type here to search

16°C Mostly sunny 12:35 27-01-2022

SQL Commands x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:78969639232575::NO::

ORACLE Database Express Edition

User: ASE

Home > SQL > SQL Commands

☒ Autocommit Display: 10 Save Run

SELECT SALARY, COMMISSION FROM AUTHOR ORDER BY ID DESC;

Results Explain Describe Saved SQL History

SALARY	COMMISSION
8050	1800
9000	0
8500	0
6000	0
5000	1400
3000	1500

6 rows returned in 0.00 seconds CSV Export

Language: en-us

Type here to search

17°C Haze 12:57 27-01-2022

# EXPERIMENT-03

---

**AIM** - Write a query in SQL that prompts the user for a manager ID and generates the employee ID, last name, salary, and department for that manager's employees. The HR department wants the ability to sort the report on a selected column.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND-**

```
CREATE TABLE MODEL
```

```
(
```

```
MAN_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
SALARY INT
```

```
);
```

### **AND**

```
CREATE TABLE PRODUCER
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
EMP_SALARY INT,
```

```
EMP_DEPT VARCHAR(30),
```

```
MAN_ID INT
```

```
);
```

## **2.INSERT COMMAND-**

```
INSERT INTO MODEL(MAN_ID,FIRST_NAME,LAST_NAME,SALARY)
```

```
VALUES(01,'AVANTIKA','GUPTA',50000);
```

### **AND**

```
INSERT INTO PRODUCER(EMP_ID,FIRST_NAME,LAST_NAME,EMP_SALARY,EMP_DEPT,MAN_ID,)
```

```
VALUES(01,'ISHA','DOGRA',50000,'IT',06);
```

## **3.SELECT COMMAND-**

```
SELECT *FROM MODEL;
```

### **AND**

```
SELECT *FROM MODEL;
```

## **4.REQUIRED SOL-**

```
SELECT EMP_ID,FIRST_NAME,LAST_NAME,EMP_SALARY,EMP_DEPT FROM PRODUCER WHERE  
MAN_ID = 8;
```

### **AND**

```
SELECT EMP_ID, FIRST_NAME,LAST_NAME,MAN_ID,EMP_SALARY FROM PRODUCER ORDER BY  
MAN_ID DESC;
```

# OUTPUTS:

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

```
CREATE TABLE MODEL  
(  
  PWN_ID INT PRIMARY KEY,  
  FIRST_NAME VARCHAR(10),  
  LAST_NAME VARCHAR(20),  
  SALARY INT  
);
```

Below the SQL Commands window, the status bar indicates "Table created." and "0.14 seconds".

The bottom of the screenshot shows the Windows taskbar with the search bar, taskbar icons, and system tray showing the date and time as 18:49 on 27-01-2022.

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

```
INSERT INTO MODEL(PWN_ID,FIRST_NAME, LAST_NAME, SALARY)  
VALUES(01, 'AVANTIKA', 'GUPTA', 5000);
```

Below the SQL Commands window, the status bar indicates "1 row(s) inserted." and "0.00 seconds".

The bottom of the screenshot shows the Windows taskbar with the search bar, taskbar icons, and system tray showing the date and time as 18:51 on 27-01-2022.

SQL Commands x Amazon x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:1661631810114948::NO::

ORACLE Database Express Edition

User: ADE

Home » SQL » SQL Commands

Autocommit: Display 10 Save Run

```
SELECT *FROM MODEL;
```

Results Explain Describe Saved SQL History

MAN_ID	FIRST_NAME	LAST_NAME	SALARY
2	MORRIS	MANO	60000
3	MSHI	KAUR	70000
4	ANJALI	SHAKTI	80000
5	YASHIKA	SINGH	90000
6	JOHN	NEWTON	10000
1	AWANTIKA	GUPTA	50000

6 rows returned in 0.02 seconds: [View SQL](#)

Language: en-us Application Express 2.1.0.06.19 Copyright © 1999, 2016, Oracle. All rights reserved.

Type here to search 14°C Haze 16:58 27-01-2022

SQL Commands x Amazon x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:1661631810114948::NO::

ORACLE Database Express Edition

User: ADE

Home » SQL » SQL Commands

Autocommit: Display 10 Save Run

```
CREATE TABLE PRODUCER
(
EMP_ID INT PRIMARY KEY,
FIRST_NAME VARCHAR(10),
LAST_NAME VARCHAR(20),
EMP_SALARY INT,
EMP_DEPT VARCHAR(30),
MAN_ID INT
);
```

Results Explain Describe Saved SQL History

Table created.

0.00 seconds.

Language: en-us Application Express 2.1.0.06.19 Copyright © 1999, 2016, Oracle. All rights reserved.

Type here to search 14°C Haze 16:04 27-01-2022



SQL Commands | Amazon | Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:1661631810114948::NO-

ORACLE Database Express Edition

User: ASE

Home » SQL » SQL Commands

Autocommit: Display 10 Save Run

```
INSERT INTO PRODUCER(EMP_ID, FIRST_NAME, LAST_NAME, EMP_SALARY, EMP_DEPT, MAN_ID)
VALUES(01, 'ISHA', 'DOGRA', 50000, 'IT', 06);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds.

Application Express 2.1.0.06.39  
Copyright © 1999, 2006, Oracle. All rights reserved.

Language: en-us

Type here to search | 13°C: Haze | 18:10 27-01-2022

SQL Commands | Amazon | Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:1661631810114948::NO-

ORACLE Database Express Edition

User: ASE

Home » SQL » SQL Commands

Autocommit: Display 10 Save Run

```
SELECT *FROM PRODUCER;
```

Results Explain Describe Saved SQL History

EMP_ID	FIRST_NAME	LAST_NAME	EMP_SALARY	EMP_DEPT	MAN_ID
1	ISHA	DOGRA	50000	IT	6
2	BHARTI	GOEL	60000	CSE	7
3	YASH	SINGH	70000	ESE	8
4	KARTIK	CHOPRA	90000	MECHANICAL	9
5	RAGHAV	SHANKAR	80000	CIVIL	9
6	LAKSHAY	JOHN	90000	CIVIL	10

6 rows returned in 0.00 seconds: (35/2400)

Application Express 2.1.0.06.39  
Copyright © 1999, 2006, Oracle. All rights reserved.

Language: en-us

Type here to search | 13°C: Haze | 18:20 27-01-2022

SQL Commands x Amazon x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:1661631810114948::NO::

ORACLE Database Express Edition

User: ADE

Home » SQL » SQL Commands

Autocommit: Display 10 Save Run

```
SELECT EMP_ID, FIRST_NAME, LAST_NAME, EMP_SALARY, EMP_DEPT FROM PRODUCER WHERE MWI_ID = 8;
```

Results Explain Describe Saved SQL History

EMP_ID	FIRST_NAME	LAST_NAME	EMP_SALARY	EMP_DEPT
3	YASH	SINGH	70000	ESE

1 rows returned in 0.00 seconds [SQL Explain](#)

Language: en-us Application Express 2.1.0.06.19 Copyright © 1999, 2006, Oracle. All rights reserved.

Type here to search 13°C Haze 19:30 27-01-2022

SQL Commands x Amazon x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:1661631810114948::NO::

ORACLE Database Express Edition

User: ADE

Home » SQL » SQL Commands

Autocommit: Display 10 Save Run

```
SELECT EMP_ID, FIRST_NAME, LAST_NAME, MWI_ID, EMP_SALARY FROM PRODUCER ORDER BY MWI_ID DESC;
```

Results Explain Describe Saved SQL History

EMP_ID	FIRST_NAME	LAST_NAME	MWI_ID	EMP_SALARY
5	LAKSHAY	JOHN	10	90000
6	RAGHAV	SHANKAR	9	80000
8	KARTIK	CHOPRA	9	90000
3	YASH	SINGH	8	70000
2	BHARTI	GOEL	7	60000
1	ISHA	DOGRA	6	50000

6 rows returned in 0.00 seconds [SQL Explain](#)

Language: en-us Application Express 2.1.0.06.19 Copyright © 1999, 2006, Oracle. All rights reserved.

Type here to search 13°C Haze 19:30 27-01-2022

# EXPERIMENT-04

---

**AIM** - Write a query in SQL to Display all employee last names in which the third letter of the name is *a*.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND-**

```
CREATE TABLE PRINT
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20)
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO PRINT(EMP_ID, FIRST_NAME, LAST_NAME)
```

```
VALUES(01, 'SHIKSHA','GOEL');
```

### **3.SELECT COMMAND-**

```
SELECT *FROM PRINT;
```

### **4.REQUIRED SOL-**

```
SELECT LAST_NAME FROM PRINT WHERE LAST_NAME LIKE '__A%'
```

# OUTPUTS:



The screenshot shows the Oracle Database Express Edition interface. The browser address bar indicates the URL: 202.12.103.189:8080/apex/f?p=4500:1003:474094770001816::NO::: User ASE. The SQL Command window contains the following SQL code:

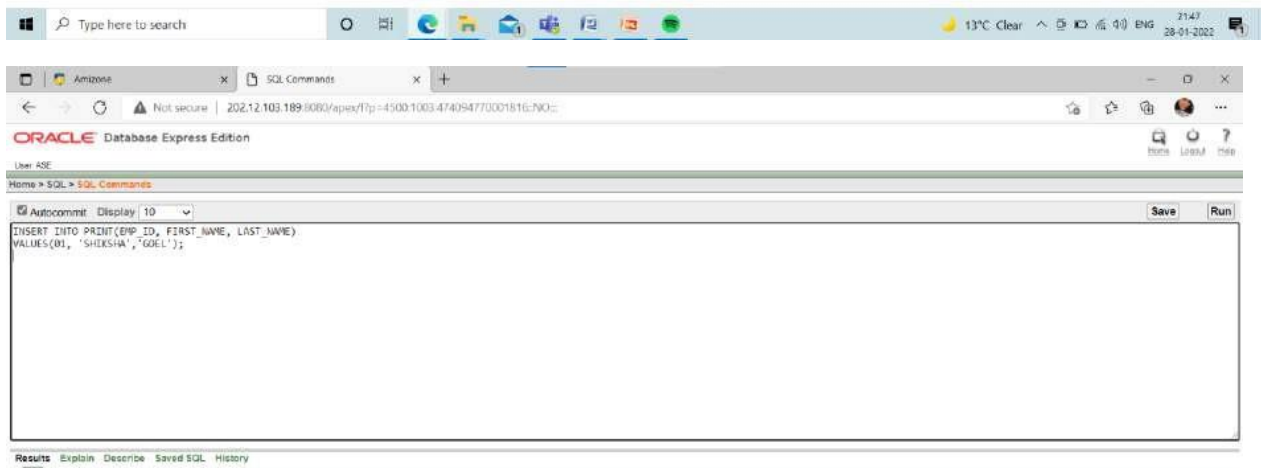
```
CREATE TABLE PRINT  
(  
  EMP_ID INT PRIMARY KEY,  
  FIRST_NAME VARCHAR(10),  
  LAST_NAME VARCHAR(20)  
);
```

Buttons for 'Save' and 'Run' are visible on the right. Below the command window, the 'Results' tab is selected, showing the message 'Table created.' and the execution time '0.03 seconds'.

Table created.

0.03 seconds

Language: enus Application Express 2.1.0.06.19 Copyright © 1999, 2016, Oracle. All rights reserved.



The screenshot shows the Oracle Database Express Edition interface. The browser address bar indicates the URL: 202.12.103.189:8080/apex/f?p=4500:1003:474094770001816::NO::: User ASE. The SQL Command window contains the following SQL code:

```
INSERT INTO PRINT(EMP_ID, FIRST_NAME, LAST_NAME)  
VALUES(01, 'SHREKHA', 'GOEL');
```

Buttons for 'Save' and 'Run' are visible on the right. Below the command window, the 'Results' tab is selected, showing the message '1 row(s) inserted.' and the execution time '0.00 seconds'.

1 row(s) inserted.

0.00 seconds

Language: enus Application Express 2.1.0.06.19 Copyright © 1999, 2016, Oracle. All rights reserved.

Amazon x SQL Commands x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:474094770001816::NO::

ORACLE Database Express Edition

User: ADE

Home » SQL » SQL Commands

☒ Autocommit Display: 10 Save Run

SELECT \*FROM PRDIT;

Results Explain Describe Saved SQL History

EMP_ID	FIRST_NAME	LAST_NAME
1	SHIKSHA	GOEL
2	ANIL	CHOPRA
3	NISHI	BHATIA
4	SHRISHITI	KHAN
5	SHELLY	SHARMA
6	YASHIKA	CHAND

6 rows returned in 0.00 seconds [SQL Explain](#)

Language: en-us Application Express 2.1.0.06.19 Copyright © 1999, 2016 Oracle. All rights reserved.

Type here to search 12°C Clear 22:03 28-01-2022

Amazon x SQL Commands x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:474094770001816::NO::

ORACLE Database Express Edition

User: ADE

Home » SQL » SQL Commands

☒ Autocommit Display: 10 Save Run

SELECT LAST\_NAME FROM PRDIT WHERE LAST\_NAME LIKE ' \_A%'

Results Explain Describe Saved SQL History

LAST_NAME
BHATIA
KHAN
SHARMA
CHAND

4 rows returned in 0.02 seconds [SQL Explain](#)

Language: en-us Application Express 2.1.0.06.19 Copyright © 1999, 2016 Oracle. All rights reserved.

Type here to search 12°C Clear 22:03 28-01-2022

# EXPERIMENT-05

---

**AIM** - Write a query in SQL to Display the last name of all employees who have both an *a* and an *e* in their last name.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE ADVENTURE  
(  
EMP_ID INT PRIMARY KEY,  
FIRST_NAME VARCHAR(10),  
LAST_NAME VARCHAR(20)  
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO ADVENTURE(EMP_ID, FIRST_NAME, LAST_NAME)  
VALUES(01, 'MORRIS','MANO');
```

### **3.SELECT COMMAND-**

```
SELECT *FROM ADVENTURE ;
```

### **4.REQUIRED SOL-**

```
SELECT LAST_NAME FROM ADVENTURE WHERE LAST_NAME LIKE '%A%' AND LAST_NAME LIKE  
'%E%';
```

# OUTPUTS:

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

```
CREATE TABLE ADVENTURE  
(  
  EMP_ID INT PRIMARY KEY,  
  FIRST_NAME VARCHAR(10),  
  LAST_NAME VARCHAR(20)  
);
```

Below the code window, the output displays:

Table created.

0.04 seconds

The status bar at the bottom indicates the application is Oracle Express 2.1.0.06.19, Copyright © 1999, 2006, Oracle. All rights reserved.

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

```
INSERT INTO ADVENTURE(EMP_ID, FIRST_NAME, LAST_NAME)  
VALUES(01, 'MORRIS', 'PAWID');
```

Below the code window, the output displays:

1 row(s) inserted.

0.00 seconds

The status bar at the bottom indicates the application is Oracle Express 2.1.0.06.19, Copyright © 1999, 2006, Oracle. All rights reserved.

SQL Commands x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:2990/19040904139::NO::

ORACLE Database Express Edition

User: ADE

Home > SQL > SQL Commands

☒ Autocommit Display: 10 Save Run

```
SELECT *FROM ADVENTURE;
```

Results Explain Describe Saved SQL History

EMP_ID	FIRST_NAME	LAST_NAME
1	MORRIS	MAHO
2	SHULU	VERMA
3	VIKAS	DHINGRA
4	ASHU	MEHTA
5	ISHU	THAKUR
6	VIRUN	MURELA

6 rows returned in 0.00 seconds CSV Export

Application Express 2.1.0.06.19  
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Language: en-us

Type here to search

12°C Cloudy 22:39 28-01-2022

SQL Commands x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:2990/19040904139::NO::

ORACLE Database Express Edition

User: ADE

Home > SQL > SQL Commands

☒ Autocommit Display: 10 Save Run

```
SELECT LAST_NAME FROM ADVENTURE WHERE LAST_NAME LIKE 'NAS' AND LAST_NAME LIKE 'SES';
```

Results Explain Describe Saved SQL History

LAST_NAME
VERMA
MEHTA
MURELA

3 rows returned in 0.02 seconds CSV Export

Application Express 2.1.0.06.19  
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Language: en-us

Type here to search

12°C Cloudy 22:45 28-01-2022



# EXPERIMENT-06

---

**AIM** - Write a query in SQL to Display the last name, job, and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to \$2,500, \$3,500, or \$7,000.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE REPRESENTATIVE
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
JOB VARCHAR(30),
```

```
SALARY INT
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO REPRESENTATIVE (EMP_ID, FIRST_NAME, LAST_NAME, JOB, SALARY)
```

```
VALUES(01, 'VARTIKA',' CHAUDHARY','SALES REPRESENTATIVE',9500);
```

### **3.SELECT COMMAND-**

```
SELECT *FROM REPRESENTATIVE;
```

### **4.REQUIRED SQL-**

```
SELECT LAST_NAME,JOB, SALARY FROM REPRESENTATIVE WHERE JOB IN ('SALES  
REPRESENTATIVE','STOCK CLERK') AND SALARY NOT IN (2500, 3500, 7000);
```

# OUTPUTS:

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

```
CREATE TABLE REPRESENTATIVE  
(  
  EMP_ID INT PRIMARY KEY,  
  FIRST_NAME VARCHAR(10),  
  LAST_NAME VARCHAR(20),  
  JOB VARCHAR(30),  
  SALARY INT  
);
```

Below the SQL window, the output shows:

Table created.

0.04 seconds

The bottom status bar indicates the application is Oracle Express 2.1.0.0.19, Copyright © 1999, 2016, Oracle. All rights reserved.

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

```
INSERT INTO REPRESENTATIVE(EMP_ID, FIRST_NAME, LAST_NAME, JOB, SALARY)  
VALUES(01, 'VARTIKA', 'CHAUDHARY', 'SALES REPRESENTATIVE', 9500);
```

Below the SQL window, the output shows:

1 row(s) inserted.

0.00 seconds

The bottom status bar indicates the application is Oracle Express 2.1.0.0.19, Copyright © 1999, 2016, Oracle. All rights reserved.

SQL Commands x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:8629190920804470::NO::

ORACLE Database Express Edition

User: ADE

Home » SQL » SQL Commands

☒ Autocommit Display: 10 Save Run

```
SELECT *FROM REPRESENTATIVE;
```

Results Explain Describe Saved SQL History

EMP_ID	FIRST_NAME	LAST_NAME	JOB	SALARY
1	VARTIKA	CHAUDHARY	SALES REPRESENTATIVE	9500
2	SAKSHI	DEOHA	STOCK CLERK	8800
3	RASHI	SHARMA	CEO	2500
4	PALAK	TAYAL	SALES REPRESENTATIVE	4000
5	DIKSHA	AGGARWAL	SOFTWARE ENGINEER	4000
6	SHREYA	GUPTA	STOCK CLERK	2200

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

Application Express 2.1.0.06.19  
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Language: en-us

Type here to search

14°C Cloudy 20:17 31-01-2022

SQL Commands x +

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:8629190920804470::NO::

ORACLE Database Express Edition

User: ADE

Home » SQL » SQL Commands

☒ Autocommit Display: 10 Save Run

```
SELECT LAST_NAME, JOB, SALARY FROM REPRESENTATIVE WHERE JOB IN ('SALES REPRESENTATIVE', 'STOCK CLERK') AND SALARY NOT IN (2500, 3500, 7000);
```

Results Explain Describe Saved SQL History

LAST_NAME	JOB	SALARY
CHAUDHARY	SALES REPRESENTATIVE	9500
DEOHA	STOCK CLERK	8800
TAYAL	SALES REPRESENTATIVE	4000
GUPTA	STOCK CLERK	2200

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

Application Express 2.1.0.06.19  
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Language: en-us

Type here to search

14°C Cloudy 20:20 31-01-2022

# EXPERIMENT-07

---

**AIM** - Write a query in SQL to display the employee number, last name, salary, and salary increased by 15.5% (expressed as a whole number) for each employee. Label the column New Salary.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE TEMPLATE
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
SALARY INT
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO TEMPLATE(EMP_ID, FIRST_NAME, LAST_NAME, SALARY)
```

```
VALUES(01,'MORRIS', 'MANO', 15000);
```

### **3.SELECT COMMAND-**

```
SELECT *FROM TEMPLATE;
```

### **4.REQUIRED SQL-**

```
SELECT EMP_ID, LAST_NAME, SALARY, SALARY+(SALARY*15.5/100) AS "NEY SALARY"  
FROM TEMPLATE;
```

# OUTPUTS:

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the query: `SELECT * FROM TEMPLATE;`. The results are displayed in a table with 6 rows. The status bar at the bottom indicates "6 rows returned in 0.00 seconds".

EMP_ID	FIRST_NAME	LAST_NAME	SALARY
1	MORRIS	MANO	15000
3	JUHI	CHAWLA	17000
6	ISHIKA	GUPTA	21000
2	RUIH	SHARMA	16000
5	RISHIKA	RASTOGI	20000
4	KANGSHIKA	BHATIA	18000

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the query: `SELECT EMP_ID, LAST_NAME, SALARY, SALARY+(SALARY*15.5/100) AS "NEW SALARY" FROM TEMPLATE;`. The results are displayed in a table with 6 rows. The status bar at the bottom indicates "6 rows returned in 0.02 seconds".

EMP_ID	LAST_NAME	SALARY	NEW SALARY
1	MANO	15000	17325
3	CHAWLA	17000	19635
6	GUPTA	21000	24255
2	SHARMA	16000	18400
5	RASTOGI	20000	23100
4	BHATIA	18000	20790

# EXPERIMENT-08

---

**AIM** - Create a report that produces the following for each employee: <employee last name> earns <salary> monthly but wants <3 times salary>. Label the column Dream Salaries.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE TEMPLATE
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
SALARY INT
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO TEMPLATE(EMP_ID, FIRST_NAME, LAST_NAME, SALARY)
```

```
VALUES(01,'MORRIS', 'MANO', 15000);
```

### **3.SELECT COMMAND-**

```
SELECT *FROM TEMPLATE;
```

### **4.REQUIRED SQL-**

```
SELECT LAST_NAME, SALARY , (SALARY*3) AS "DREAM SALARY" FROM TEMPLATE;
```

```
SELECT EMP_ID, FIRST_NAME, LAST_NAME, SALARY , (SALARY*3) AS "DREAM SALARY"  
FROM TEMPLATE;
```

# OUTPUTS:

SQL Commands

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:4031322584033223::NO::

ORACLE Database Express Edition

User: ASB

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT LAST_NAME, SALARY, (SALARY*3) AS "DREAM SALARY" FROM TEHPATE;
```

Results Explain Describe Saved SQL History

LAST_NAME	SALARY	DREAM SALARY
MANO	15000	45000
CHAWLA	17000	51000
GUPTA	21000	63000
SHARMA	16000	48000
RASTOGI	20000	60000
BHATIA	18000	54000

6 rows returned in 0.01 seconds CSV Export

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SQL Commands

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:4031322584033223::NO::

ORACLE Database Express Edition

User: ASB

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT EMP_ID, FIRST_NAME, LAST_NAME, SALARY, (SALARY*3) AS "DREAM SALARY" FROM TEHPATE;
```

Results Explain Describe Saved SQL History

EMP_ID	FIRST_NAME	LAST_NAME	SALARY	DREAM SALARY
1	MORRIS	MANO	15000	45000
3	JUHI	CHAWLA	17000	51000
6	ISHIKA	GUPTA	21000	63000
2	RUHI	SHARMA	16000	48000
5	RISHIKA	RASTOGI	20000	60000
4	KANISHKA	BHATIA	18000	54000

6 rows returned in 0.00 seconds CSV Export

Application Express 2.1.0.00.50  
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# EXPERIMENT-09

---

**AIM** - Create a query to display the last name and salary for all employees. Format the salary to be 15 characters long, left-padded with the \$ symbol. Label the column SALARY.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE TEMPLATE
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
SALARY INT
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO TEMPLATE(EMP_ID, FIRST_NAME, LAST_NAME, SALARY)
```

```
VALUES(01,'MORRIS', 'MANO', 15000);
```

### **3.SELECT COMMAND-**

```
SELECT *FROM TEMPLATE;
```

### **4.REQUIRED SOL-**

```
SELECT LAST_NAME, LPAD ("SALARY",15, '$000000000000000') AS "NEW SALARY" FROM  
TEMPLATE;
```



# OUTPUTS:

The screenshot shows the Oracle Database Express Edition interface. The browser address bar indicates the URL: 202.12.103.189:8080/apex/f?p=4500:1003:4031322584033223::NO::

The SQL Commands window displays the following query:

```
SELECT LAST_NAME,  
LPAD ("SALARY",15, '00000000000000') AS "NEW SALARY"  
FROM TEMPLATE;
```

The query results are displayed in a table with two columns: LAST\_NAME and NEW SALARY. The results are as follows:

LAST_NAME	NEW SALARY
MAJID	560000000015000
CHAVLA	560000000017000
GUPTA	560000000021000
SHARMA	560000000016000
RASTOGI	560000000020000
BHATIA	560000000018000

6 rows returned in 0.00 seconds

Application Express 2.1.0.00.30  
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# EXPERIMENT-10

---

**AIM** – E1 and E2 are two tables, write a query to display employee first name from E1 in upper case and label it as employee name.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

CREATE TABLE TEMPLATE

(

EMP\_ID INT PRIMARY KEY,

FIRST\_NAME VARCHAR(10),

LAST\_NAME VARCHAR(20),

SALARY INT

);

### **2.INSERT COMMAND-**

INSERT INTO TEMPLATE(EMP\_ID, FIRST\_NAME, LAST\_NAME, SALARY)

VALUES(01,'MORRIS', 'MANO', 15000);

### **3.SELECT COMMAND-**

SELECT \*FROM TEMPLATE;

### **4.REQUIRED SQL-**

SELECT UPPER ("FIRST\_NAME") FROM TEMPLATE;

# OUTPUTS:

The screenshot shows the Oracle Database Express Edition (DEE) interface. The browser address bar indicates the URL: `202.12.103.189:8080/apex/f?p=4500:1003:4031322584033223::NO::`. The user is logged in as 'ASB'. The SQL Commands window contains the following query:

```
SELECT UPPER ("LAST_NAME") FROM TEMPLATE;
```

The query has been executed, and the results are displayed in a table with one column, `UPPER("LAST_NAME")`. The results are as follows:

UPPER("LAST_NAME")
MAHO
CHAVLA
GUPTA
SHARMA
RASTOGI
BHATIA

Below the table, it states: "6 rows returned in 0.00 seconds". The status bar at the bottom of the application shows "Language: en-us" and "Copyright © 1998, 2006, Oracle. All rights reserved.".

# EXPERIMENT-11

---

**AIM** – Write a query retrieve the first character of employee last name from the table.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE TEMPLATE
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
SALARY INT
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO TEMPLATE(EMP_ID, FIRST_NAME, LAST_NAME, SALARY)
```

```
VALUES(01,'MORRIS', 'MANO', 15000);
```

### **3.SELECT COMMAND-**

```
SELECT *FROM TEMPLATE;
```

### **4.REQUIRED SOL-**

```
SELECT SUBSTR (LAST_NAME, 1, 1) FROM TEMPLATE;
```

# OUTPUT:

The screenshot shows the Oracle Database Express Edition web interface. The browser address bar displays a URL starting with 202.12.103.189. The page title is "ORACLE Database Express Edition". The user is logged in as "User ASE". The main content area is titled "SQL Commands" and contains a text input field with the SQL query: `SELECT SUBSTR (LAST_NAME, 1, 1) FROM TEMPLATE;`. Below the input field, the "Results" tab is selected, showing a table with one column, `SUBSTR(LAST_NAME,1,1)`, and six rows of data: M, C, G, S, R, and D. The status bar at the bottom indicates "6 rows returned in 0.00 seconds" and provides a "CSV Export" link. The Windows taskbar at the bottom shows the system clock as 05:13 on 05-03-2022.

SQL Commands

Not secure | 202.12.103.189:8080/epos/ffp=4500:1003:483351441005786:NO::

Apps Gmail YouTube Amazon Application Express...

ORACLE Database Express Edition

User ASE

Home > SQL > SQL Commands

☒ Autocommit Display | 10 Save Run

SELECT SUBSTR (LAST\_NAME, 1, 1) FROM TEMPLATE;

Results Explain Describe Saved SQL History

SUBSTR(LAST_NAME,1,1)
M
C
G
S
R
D

6 rows returned in 0.00 seconds CSV Export

Application Express 2.1.0.00.39

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22°C Sunny 05:13 05-03-2022

# EXPERIMENT-12

---

**AIM** – write a query to retrieve employee first name and last name in single column as full name where full name should be separated with space.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE TEMPLATE
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
SALARY INT
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO TEMPLATE(EMP_ID, FIRST_NAME, LAST_NAME, SALARY)
```

```
VALUES(01,'MORRIS', 'MANO', 15000);
```

### **3.SELECT COMMAND-**

```
SELECT *FROM TEMPLATE;
```

### **4.REQUIRED SOL-**

```
SELECT CONCAT (FIRST_NAME, LAST_NAME) AS FULL_NAME FROM TEMPLATE;
```

# OUTPUT:

The screenshot displays the Oracle Database Express Edition web interface. The browser address bar shows the URL: `202.12.103.189:8080/apex/f?p=4500:1003:483351441005786::NO::`. The page title is "ORACLE Database Express Edition". The user is logged in as "User ASE". The interface shows the "SQL Commands" tab selected. The SQL command entered is: `SELECT CONCAT (FIRST_NAME, LAST_NAME) AS FULL_NAME FROM TEMPLATE;`. The "Autocommit" checkbox is checked, and the "Display" dropdown is set to "10". The "Save" and "Run" buttons are visible. Below the command editor, the "Results" tab is selected, showing a table with one column, "FULL\_NAME", and six rows of data. The status bar at the bottom indicates "6 rows returned in 0.00 seconds" and provides a "CSV Export" link. The system tray at the bottom right shows the date and time as "02:07 05-03-2022".

SQL Commands

Not secure | 202.12.103.189:8080/apex/f?p=4500:1003:483351441005786::NO::

Apps Gmail YouTube Amazon Application Express...

ORACLE Database Express Edition

User ASE

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

SELECT CONCAT (FIRST\_NAME, LAST\_NAME) AS FULL\_NAME FROM TEMPLATE;

Results Explain Describe Saved SQL History

FULL_NAME
MORRISMANO
JUHICHAWLA
ISHIKAGUPTA
RUHISHARMA
RUSHIKARASTOGI
KANISHKABHATIA

6 rows returned in 0.00 seconds CSV Export

Application Express 2.1.0.00.39

Downloaded At: 10:00 AM - Server: All rights reserved

Type here to search

24°C Haze 02:07 05-03-2022

# EXPERIMENT-13

---

**AIM** – Write a query to display the records that are present in one table but not in another table.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE TEMPLATE
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
SALARY INT
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO TEMPLATE(EMP_ID, FIRST_NAME, LAST_NAME, SALARY)
```

```
VALUES(01,'MORRIS', 'MANO', 15000);
```

### **3.SELECT COMMAND-**

```
SELECT *FROM TEMPLATE;
```

### **4.REQUIRED SOL-**

```
SELECT FIRST_NAME FROM ADVENTURE WHERE NOT EXISTS (SELECT *FROM  
TEMPLATE WHERE TEMPLATE.FIRST_NAME = ADVENTURE.FIRST_NAME)
```



# OUTPUT:

The screenshot displays the Oracle Database Express Edition web interface. The browser address bar shows the URL `202.12.103.189:8080/apex/f?p=4500:1003:1766927474550987::NO::`. The page title is "ORACLE Database Express Edition". The user is logged in as "User: ASB". The breadcrumb navigation shows "Home > SQL > SQL Commands". The "Autocommit" checkbox is checked, and the "Display" dropdown is set to "10". The SQL command entered is: `SELECT FIRST_NAME FROM ADVENTURE WHERE NOT EXISTS (SELECT * FROM TEMPLATE WHERE TEMPLATE.FIRST_NAME = ADVENTURE.FIRST_NAME)`. The "Save" and "Run" buttons are visible. Below the command area, the "Results" tab is selected, showing a table with one column, "FIRST\_NAME", and five rows of data: VARUN, IBHU, SHALU, VIKAS, and ASHU. A status message indicates "5 rows returned in 0.03 seconds" and "CSV, XML" options. The footer shows "Language: en-us" and "Application: Express 2.1.0.00.19 Copyright © 1999, 2006, Oracle. All rights reserved."

FIRST_NAME
VARUN
IBHU
SHALU
VIKAS
ASHU

5 rows returned in 0.03 seconds CSV, XML

Language: en-us Application: Express 2.1.0.00.19 Copyright © 1999, 2006, Oracle. All rights reserved.

# EXPERIMENT-14

---

**AIM** – Write a query to find the third highest salary from table.

## **PLATFORM USED –**

Oracle.

## **COMMANDS USED –**

### **1.CREATE TABLE COMMAND**

```
CREATE TABLE TEMPLATE
```

```
(
```

```
EMP_ID INT PRIMARY KEY,
```

```
FIRST_NAME VARCHAR(10),
```

```
LAST_NAME VARCHAR(20),
```

```
SALARY INT
```

```
);
```

### **2.INSERT COMMAND-**

```
INSERT INTO TEMPLATE(EMP_ID, FIRST_NAME, LAST_NAME, SALARY)
```

```
VALUES(01,'MORRIS', 'MANO', 15000);
```

### **3.SELECT COMMAND-**

```
SELECT *FROM TEMPLATE;
```

### **4.REQUIRED SOL-**

```
SELECT SALARY FROM TEMPLATE WHERE SALARY>17000 AND SALARY<19000;
```

# OUTPUT:

The screenshot displays the Oracle Database Express Edition web interface. The browser address bar shows the URL: `202.12.103.189:8080/oxp/ftp=4500.10031766927474550987:NC=`. The page title is "ORACLE Database Express Edition". The user is logged in as "User ASE". The breadcrumb navigation shows "Home > SQL > SQL Commands". The "Autocommit" checkbox is checked, and the "Display" dropdown is set to "10". The SQL command entered in the text area is: `SELECT SALARY FROM TEMPLATE WHERE SALARY>17000 AND SALARY<19000;`. Below the command area, there are tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Results" tab is active, showing a table with one column, "SALARY", and one row with the value "18500". Below the table, it states "1 rows returned in 0.00 seconds" and provides a "Copy Error" link. At the bottom of the interface, there is a footer with "Language: en-us" on the left and "Application Express 2.1.0.08.29 Copyright © 1996-2006 Oracle. All rights reserved." on the right.

Oracle Database Express Edition

User ASE

Home > SQL > SQL Commands

Autocommit: Display: 10

Save Run

SELECT SALARY FROM TEMPLATE WHERE SALARY>17000 AND SALARY<19000;

Results Explain Describe Saved SQL History

SALARY
18500

1 rows returned in 0.00 seconds [Copy Error](#)

Language: en-us Application Express 2.1.0.08.29 Copyright © 1996-2006 Oracle. All rights reserved.