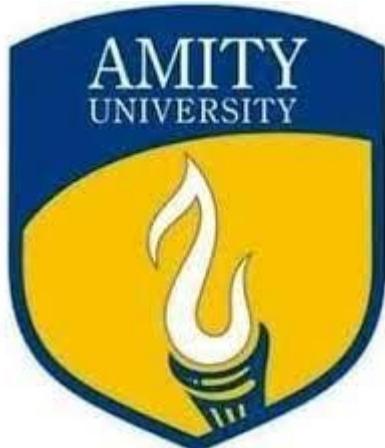


AMITY UNIVERSITY GWALIOR (M.P.)



DATABASE MANAGEMENT SYSTEM FILE

CSE - 324

SESSION - 2020-24

SUBMITTED BY:-

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CHAPTER 1

INTRODUCTION TO SQL

1.1 SQL :-

Standard language for querying and manipulating data

Structured Query Language.

1.1 VERSION OF SQL :-

Version	Release Date	Mainstream End Date	Extended End Date	Release name	Code name	Internal database version
-	1999	?	?	SQL Server 7.0 OLAP Tools	Plato	-
1.0 (OS/2)	1989	?	?	SQL Server 1.0 (16-bit)	Filipi	-
1.1 (OS/2)	1990	?	?	SQL Server 1.1 (16-bit)	Pietro	-
4.2A (OS/2)	1992	?	?	SQL Server 4.2A	-	-
4.2B (OS/2)	1993	?	?	SQL Server 4.2B (16-bit)	-	-
4.21a (WinNT)	1993	?	?	SQL Server 4.21a	SQLNT	-
6.0	1995	?	?	SQL Server 6.0	SQL95	406
6.5	1996	?	?	SQL Server 6.5	Hydra	408
7.0	1998	?	?	SQL Server 7.0	Sphinx	515
8.0	2000	8 April 2008	9 April 2013	SQL Server 2000	Shiloh	539
8.0	2003	?	?	SQL Server 2000 64-bit Edition	Liberty	539
9.0	14 January 2006	12 April 2011	12 April 2016	SQL Server 2005	Yukon	611/612

10.0	6 November 2008	8 July 2014	9 July 2019	SQL Server 2008	Katmai	655
10.25	2010	?	?	Azure SQL database (initial release)	Cloud database or CloudDB	–
10.50	20 July 2010	8 July 2014	9 July 2019	SQL Server 2008 R2	Kilimanjaro (aka KJ)	661
11.0	20 May 2012	11 July 2017	12 July 2022	SQL Server 2012	Denali	706
12.0	2014	?	?	Azure SQL database	–	–
12.0	5 June 2014	9 July 2019	9 July 2024	SQL Server 2014	Hekaton	782
13.0	1 June 2016	13 July 2021	14 July 2026	SQL Server 2016	SQL16	852
14.0	29 September 2017	11 October 2022	12 October 2027	SQL Server 2017	Helsinki	869
15.0	4 November 2019	7 January 2025	8 January 2030	SQL Server 2019	Seattle	895

RED= Old version

GREEN = Old version , still maintained

YELLOW= **Latest version**

CHAPTER 2

TYPES OF LANGUAGE

2.1 Data Definition Language (DDL)

Statements are used to define the database structure or schema.

Some examples:

CREATE - to create objects in the database

ALTER - alters the structure of the database

DROP - delete objects from the database

TRUNCATE - remove all records from a table, including all spaces allocated for the records are removed

COMMENT - add comments to the data dictionary

RENAME - rename an object

Specification notation for defining the database schema

Example: **create table account (account-number char(10),**

balance integer)

DDL compiler generates a set of tables stored in a *data dictionary*.

Data dictionary contains metadata (i.e., data about data)

Database scheme

Data storage and definition language

Specifies the storage structure and access methods used Integrity constraints

Domain constraints

Referential integrity (**references** constraint in SQL) Assertions

Authorization

2.2 Data Manipulation Language (DML)

Language for accessing and manipulating the data organized by the appropriate data model

DML also known as query language Two classes of languages

Procedural – user specifies what data is required and how to get those data

Declarative (nonprocedural) – user specifies what data is required without specifying how to get those data

SQL is the most widely used query language .

Some examples:

SELECT - Retrieve data from the a database

INSERT - Insert data into a table

UPDATE - Updates existing data within a table

DELETE - deletes all records from a table, the space for the records remain

MERGE - UPSERT operation (insert or update)

CALL - Call a PL/SQL or Java subprogram

EXPLAIN PLAN - explain access path to data

LOCK TABLE - control concurrency

2.3 Data Control Language (DCL)

DCL commands are used for access control and permission management for users in the database. With them we can easily allow or deny some actions for users on the tables or records (row level security).

DCL commands are:

GRANT – We can give certain permissions on the table (and other objects) for certain users of database,

DENY – bans certain permissions from users.

REVOKE – with this command we can take back permission from users.

For Example

GRANT can be used to give privileges to user to do SELECT, INSERT, UPDATE and DELETE on a specific table or more than one tables.

With REVOKE command we can take back privilege to default or revoking specific command like update or delete based on requirements.

2.4 Transaction Control Language (TCL)

Statements are used to manage the changes made by DML statements. It allows statements to be grouped together into logical transactions.

Some examples:

COMMIT - save work done

SAVEPOINT - identify a point in a transaction to which you can later roll back

ROLLBACK - restore database to original since the last COMMIT

SET TRANSACTION - Change transaction options like isolation level and what rollback segment to use

CHAPTER 3

IMPLEMENTATION OF DDL COMMANDS

TABLE IN SQL

SCHEMA OF TABLE :-

RP(PName,Price,Category,Manufacturer)

DATA TYPES IN SQL:-

Characters: CHAR(20), VARCHAR(50)

Numbers: INT, BIGINT, SMALLINT, FLOAT

Others: MONEY, DATETIME, ...

CREATION OF TABLE :-

CREATE TABLE RP(PName varchar(20), Price number(20), Category varchar(20), Manufacturer varchar(20));

DESC RP

The screenshot shows a Chrome browser window with the URL `202.12.103.135/vlab/`. The page title is "SQL Commands". The query entered is `desc RP`. Below the query, the results show the structure of the RP table:

Object Type	TABLE Object RP								
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RP	PNAME	VARCHAR2	20	-	-	-	✓	-	-
	PRICE	NUMBER	-	20	0	-	✓	-	-
	CATEGORY	VARCHAR2	20	-	-	-	✓	-	-
	MANUFACTURER	VARCHAR2	20	-	-	-	✓	-	-

At the bottom, it says "1 - 4". The status bar at the bottom right indicates "Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved."

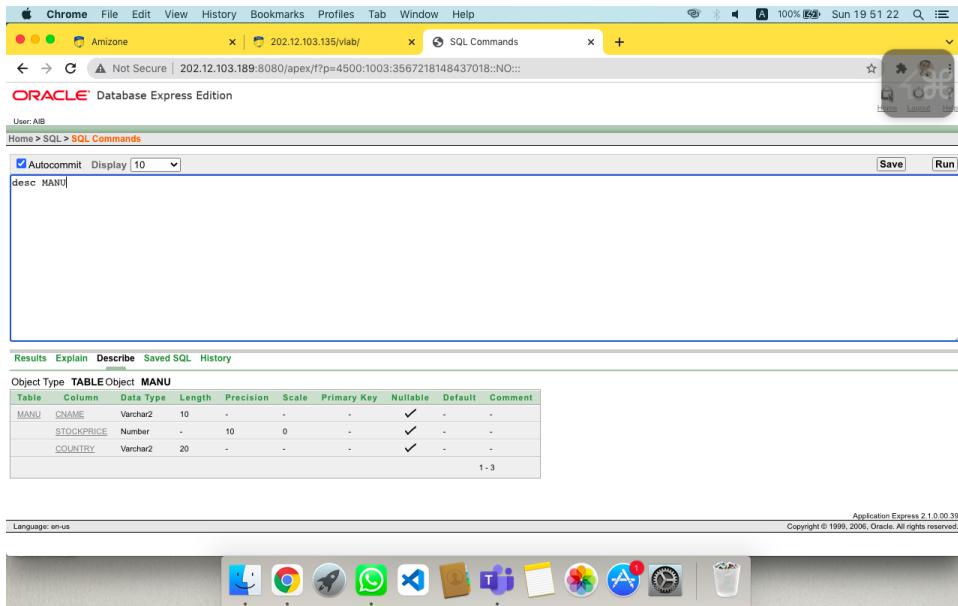
SELECT * FROM RP

The screenshot shows a Chrome browser window with the URL `202.12.103.135/vlab/`. The page title is "SQL Commands". The query entered is `select * from RP`. Below the query, the results show the data in the RP table:

PNAME	PRICE	CATEGORY	MANUFACTURER
Gizmo	10	Gadgets	GizmoWorks
PowerGizmo	15	Gadgets	GizmoWorks
SingleTouch	20	Photography	Canon
MultiTouch	25	Household	Hitachi

At the bottom, it says "4 rows returned in 0.05 seconds" and "CSV Export". The status bar at the bottom right indicates "Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved."

CREATE TABLE manu(CName varchar(10), StockPrice number(10), Country varchar(20));
DESC MANU



The screenshot shows the Oracle Database Express Edition interface in a web browser. The user is executing SQL commands. The command entered is:

```
desc MANU
```

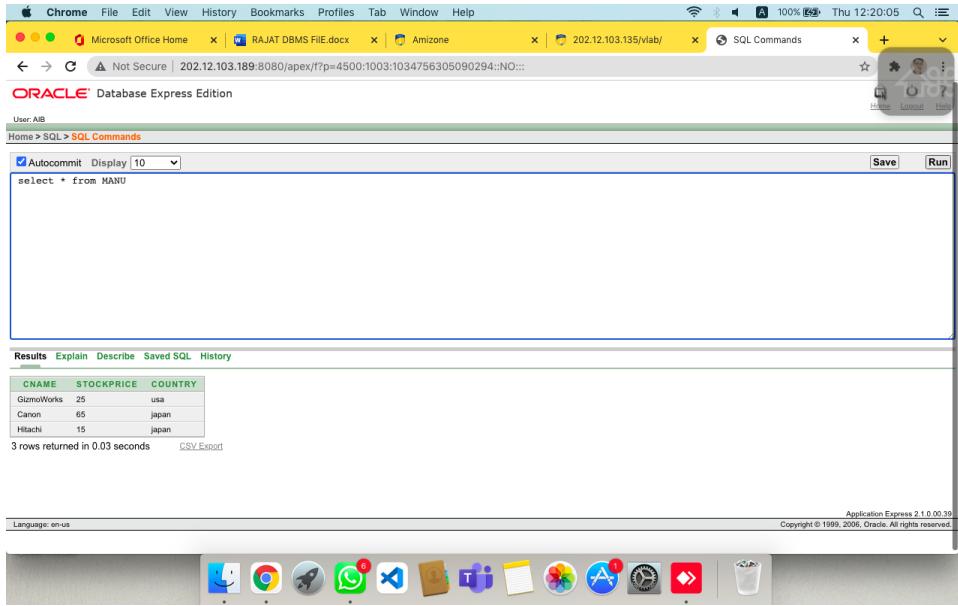
The results show the structure of the MANU table:

Object Type	TABLE Object	MANU							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MANU	CNAME	VARCHAR2	10	-	-	-	✓	-	-
	STOCKPRICE	NUMBER	-	10	0	-	✓	-	-
	COUNTRY	VARCHAR2	20	-	-	-	✓	-	-

Below the table structure, there is a note: "1 - 3".

At the bottom of the interface, it says "Language: en-us" and "Copyright © 1999, 2006, Oracle. All rights reserved. Application Express 2.1.0.00.39".

SELECT * FROM MANU



The screenshot shows the Oracle Database Express Edition interface in a web browser. The user is executing SQL commands. The command entered is:

```
select * from MANU
```

The results show the data in the MANU table:

CNAME	STOCKPRICE	COUNTRY
GizmoWorks	25	usa
Canon	65	japan
Hilachi	15	japan

Below the table, it says "3 rows returned in 0.03 seconds" and "CSV Export".

At the bottom of the interface, it says "Language: en-us" and "Copyright © 1999, 2006, Oracle. All rights reserved. Application Express 2.1.0.00.39".

CREATE TABLE prsn(PName varchar(20), address varchar(20),wrksfor varchar(20));
DESC PRSN

The screenshot shows a Chrome browser window with the Oracle Database Express Edition interface. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:3567218148437018::NO:::. The page title is SQL Commands. The user is connected as 'User AIB'. The SQL command entered is 'desc PRSN'. Below the command, a table is displayed:

Object Type	TABLE	Object	PRSN						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PRSN	PNAME	VARCHAR2	20	-	-	-	✓	-	-
	ADDRESS	VARCHAR2	20	-	-	-	✓	-	-
	WRKSFOR	VARCHAR2	20	-	-	-	✓	-	-

At the bottom, it says '1 - 3'.

Below the table, the status bar shows 'Language: en-us' and 'Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.'

SELECT * FROM PRSN

The screenshot shows a Chrome browser window with the Oracle Database Express Edition interface. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:1034756305090294::NO:::. The page title is SQL Commands. The user is connected as 'User AIB'. The SQL command entered is 'select * from PRSN'. Below the command, the results are displayed:

PNAME	ADDRESS	WRKSFOR
rajab	ddnagar	acc
manas	cmpx	code

Below the table, it says '2 rows returned in 0.03 seconds' and 'CSV Export'.

At the bottom, the status bar shows 'Language: en-us' and 'Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.'

CREATE TABLE cmpny(CName varchar(20), address varchar(20));

DESC CMPNY

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL is 202.12.103.135/vlab/. The page title is SQL Commands. The SQL command entered is `desc CMPNY`. The results show the structure of the CMPNY table:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CMPNY	CNAME	VARCHAR2	20	-	-	-	✓	-	-
	ADDRESS	VARCHAR2	20	-	-	-	✓	-	-

Below the table, there is a note: 1 - 2. The bottom status bar indicates Language: en-us and Application Express 2.1.0.0.39.

SELECT * FROM CMPNY

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL is 202.12.103.135/vlab/. The page title is SQL Commands. The SQL command entered is `select * from CMPNY`. The results show the data from the CMPNY table:

CNAME	ADDRESS
acc	airprt
GOOGLE	U.S.A
rgps	bprt

Below the table, it says 3 rows returned in 0.03 seconds and provides a CSV Export link. The bottom status bar indicates Language: en-us and Application Express 2.1.0.0.39.

CREATE TABLE pp (PName varchar(20) ,address varchar(20),wrksfor varchar(20),PRIMARY KEY(wrksfor));

DESC PP

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:3567218148437018::NO:::. The page displays the description of the table PP. The table has three columns: PNAME, ADDRESS, and WRKSFOR. The PNAME column is the primary key.

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PP	PNAME	VARCHAR2	20	-	-	-	✓	-	-
	ADDRESS	VARCHAR2	20	-	-	-	✓	-	-
	WRKSFOR	VARCHAR2	20	-	-	1	-	-	-

Results Explain Describe Saved SQL History

Object Type TABLE Object PP

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

SELECT * FROM PP

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:1034756305090294::NO::. The page displays the results of the query select * from PP. Three rows are returned:

PNAME	ADDRESS	WRKSFOR
RAJAT	DDNAGAR	AMITY
SHASHANK	BSECTOR	HOME
RAM	DSECTOR	MTS

3 rows returned in 0.05 seconds CSV Export Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

CREATE TABLE C_pn (CName varchar(20), Address varchar(20), FOREIGN KEY(CName) REFERENCES pp(wrksfor));

DESC C_pn

The screenshot shows a browser window with the Oracle Database Express Edition interface. The URL is 202.12.103.135/vlab/. The SQL Commands page displays the results of the DESCRIBE command for the table C_PN. The table has two columns: CNAME (Varchar2(20)) and ADDRESS (Varchar2(20)). Primary key constraints are defined on both columns.

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
C_PN	CNAME	Varchar2	20	-	-	✓	-	-	
C_PN	ADDRESS	Varchar2	20	-	-	✓	-	-	

SELECT * FROM C_pn

The screenshot shows a browser window with the Oracle Database Express Edition interface. The URL is 202.12.103.135/vlab/. The SQL Commands page displays the results of the SELECT * FROM C_PN query. The output shows three rows of data: AMITY, GWL; HOME, INDORE; and MITS, RATLAM.

CNAME	ADDRESS
AMITY	GWL
HOME	INDORE
MITS	RATLAM

CREATE TABLE Cpny (Name varchar(20) ,city varchar(20),PRIMARY KEY(Name));

DESC CPNY

The screenshot shows the Oracle Database Express Edition SQL Commands interface. In the SQL editor, the command `desc CPNY` is entered. Below the editor, a table structure for CPNY is displayed:

Object Type	TABLE	Object	CPNY						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CPNY	NAME	Varchar2	20	-	-	1	-	-	-
	CITY	Varchar2	20	-	-	-	✓	-	-

At the bottom, the results show two rows of data:

NAME	CITY
amazon	mumbai
flipkart	delhi

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SELECT * FROM CPNY

The screenshot shows the Oracle Database Express Edition SQL Commands interface. In the SQL editor, the command `select * from CPNY` is entered. Below the editor, the results show two rows of data:

NAME	CITY
amazon	mumbai
flipkart	delhi

2 rows returned in 0.04 seconds CSV Export

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CREATE TABLE Pduct (PName varchar(20) ,maker varchar(20),FOREIGN KEY (maker) REFERENCES cpny(Name),PRIMARY KEY(PName));

DESC PDUCT

The screenshot shows a browser window for Oracle Database Express Edition. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:3567218148437018::NO:::. The page title is SQL Commands. The SQL editor contains the command: desc PDUCT. Below the editor, the results show the table structure:

Object Type	TABLE	Object Name	PDUCT
Table	Column	Data Type	PNAME
		VARCHAR2	20
		Length	-
		Precision	-
		Scale	-
		Primary Key	1
		Nullable	✓
		Default	-
		Comment	-

Below the table structure, there is another table:

PNAME	MAKER
iphone	amazon
samsung	flipkart

At the bottom of the results pane, it says "1 row(s) returned in 0.01 seconds". The status bar at the bottom of the browser window indicates "Language: en-us" and "Application Express 2.1.0.00.30 Copyright © 1999, 2006, Oracle. All rights reserved."

SELECT * FROM PDUCT

The screenshot shows a browser window for Oracle Database Express Edition. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:1034756305090294::NO::. The page title is SQL Commands. The SQL editor contains the command: select * from Pduct. Below the editor, the results show the data from the PDUCT table:

PNAME	MAKER
iphone	amazon
samsung	flipkart

At the bottom of the results pane, it says "2 rows returned in 0.01 seconds". The status bar at the bottom of the browser window indicates "Language: en-us" and "Application Express 2.1.0.00.30 Copyright © 1999, 2006, Oracle. All rights reserved."

CREATE TABLE Pchs (id number(20) ,product varchar(20),buyer varchar(20), FOREIGN KEY (product) REFERENCES Pduct(PName)

DESC PCHS

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:3567218148437018::NO::

ORACLE Database Express Edition

User AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
desc PCBS
```

Results Explain Describe Saved SQL History

Object Type TABLE Object PCBS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PCBS	ID	Number	-	20	0	-	✓	-	-
PRODUCT	Varchar2	20	-	-	-	-	✓	-	-
BUYER	Varchar2	20	-	-	-	-	✓	-	-

1 - 3

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.



SELECT * FROM PCBS

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:1034756305090294::NO::

ORACLE Database Express Edition

User AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
select * from PCBS
```

Results Explain Describe Saved SQL History

ID	PRODUCT	BUYER
88	iphone	rajat gupta
66	samsung	shashank
1098	iphone	Priyal gupta
1099	samsung	Priyal gupta

4 rows returned in 0.03 seconds [CSV Export](#)

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CREATE TABLE P_d_t(PName varchar(20), Price number(20), Category varchar(10), Maker varchar(20),year number(20));

DESC P_D_T

The screenshot shows the Oracle Database Express Edition interface. In the SQL Commands window, the command `DESC P_D_T` is run, and the resulting table structure is displayed:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
P_D_T	PNAME	VARCHAR2	20	-	-	-	✓	-	-
	PRICE	NUMBER	-	20	0	-	✓	-	-
	CATEGORY	VARCHAR2	10	-	-	-	✓	-	-
	MAKER	VARCHAR2	20	-	-	-	✓	-	-
	YEAR	NUMBER	-	20	0	-	✓	-	-

Below the table, the message "1 - 5" is shown. The status bar at the bottom right indicates "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."

SELECT * FROM P_D_T

The screenshot shows the Oracle Database Express Edition interface. In the SQL Commands window, the command `select * from P_d_t` is run, and the resulting data is displayed:

PNAME	PRICE	CATEGORY	MAKER	YEAR
Gizmo	10	Gadgets	GizmoWorks	1185
SingleTouch	20	Photo	Canon	2005
Multitouch	25	Household	Hitachi	2010
Multitouch	25	Household	Hitachi	2010

Below the table, the message "4 rows returned in 0.03 seconds" is shown. The status bar at the bottom right indicates "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."

CREATE TABLE P_C_H_S (product varchar2(20), p_date varchar2(20), price number(20), quantity number(20))

DESC P_C_H_S

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands tab is selected. The query entered is:

```
DESC P_C_H_S
```

The results show the table structure:

Object Type	Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TABLE	P_C_H_S	PRODUCT	VARCHAR2	20	-	-	✓	-	-	
		P_DATE	VARCHAR2	20	-	-	✓	-	-	
		PRICE	NUMBER	-	20	0	✓	-	-	
		QUANTITY	NUMBER	-	20	0	✓	-	-	

1 - 4

Application Express 2.1.0.0.39
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SELECT * FROM P_C_H_S

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands tab is selected. The query entered is:

```
select * from P_C_H_S
```

The results show the data in the table:

PRODUCT	P_DATE	PRICE	QUANTITY
shirt	28-08-2002	400	2
t-shirt	08-08-2002	1000	1

2 rows returned in 0.02 seconds

CSV Export

Application Express 2.1.0.0.39
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CREATE TABLE R (A varchar2(20), B varchar2(20))

DESC R

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

```
DESC R
```

The results show the structure of table R:

Object Type	TABLE	Object	R							
	B		VARCHAR2	20	-	-	✓	-	-	-
	B		VARCHAR2	20	-	-	✓	-	✓	-

1 - 2

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

SELECT * FROM R

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

```
select * from R
```

The results show the data in table R:

A	B
RAHUL	PRIYAL
RAHUL	PRIYAL
RAJAT	SHASHANK
RAJAT	SHASHANK
RAM	SHIV
RAJU	SHYAMU
RAHUL	PRIYAL

7 rows returned in 0.03 seconds CSV Export Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

CREATE TABLE S (A varchar2(20), B varchar2(20))

DESC S

The screenshot shows the Oracle Database Express Edition SQL Commands interface. In the SQL editor, the command `DESC S` is entered. Below the editor, the results show the structure of the table `S`:

Object Type	TABLE	Object	S						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
S	A	VARCHAR2	20	-	-	-	✓	-	-
S	B	VARCHAR2	20	-	-	-	✓	-	-

At the bottom, the results pane shows the output of the `SELECT * FROM S` query:

A	B
RAJ	SH
RAJAT	SHASHANK
ABHI	DHRUV

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SELECT * FROM S

The screenshot shows the Oracle Database Express Edition SQL Commands interface. In the SQL editor, the command `select * from S` is entered. Below the editor, the results show the output of the query:

A	B
RAJ	SH
RAJAT	SHASHANK
ABHI	DHRUV

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

Application Express 2.1.0.00.39
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CREATE TABLE raja (Pname varchar(20),Price number(20),Company varchar(20), PRIMARY KEY(Company));

DESC RAJA

The screenshot shows the Oracle Database Express Edition SQL Commands interface. In the SQL editor, the command `DESC RAJA` is entered. Below the editor, the table structure for `RAJA` is displayed:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RAJA	PNAME	VARCHAR2	20	-	-	-	✓	-	-
	PRICE	NUMBER	-	20	0	-	✓	-	-
	COMPANY	VARCHAR2	20	-	-	1	-	-	-

At the bottom, the results show the table structure again with the comment "1 - 3".

`SELECT * FROM RAJA`

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The query `select * from RAJA` is executed. The results are displayed in a table:

PNAME	PRICE	COMPANY
iphne	2000	siri
mac	200000	app

Below the table, it says "2 rows returned in 0.03 seconds". At the bottom, there is a "CSV Export" link.

`CREATE TABLE raj (Cname varchar(20),City varchar(20), FOREIGN KEY (Cname) REFERENCES raja(Company));`

`DESC RAJ`

The screenshot shows the Oracle Database Express Edition SQL Commands interface. At the top, there are tabs for Home, SQL, and SQL Commands. The SQL Commands tab is active. Below the tabs, there is a toolbar with AutoCommit checked, a Display dropdown set to 10, and Save and Run buttons. The main area contains the SQL command `DESC RAJ`. Below the command, the results are displayed in a table:

Object Type	TABLE	Object	RAJ						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RAJ	CNAME	VARCHAR2	20	-	-	✓	-	-	
RAJ	CITY	VARCHAR2	20	-	-	✓	-	-	

At the bottom of the results table, there is a page number indicator "1 - 2". The status bar at the bottom right shows "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."

`SELECT * FROM RAJ`

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The SQL Commands tab is active. The main area contains the SQL command `select * from RAJ`. Below the command, the results are displayed in a table:

CNAME	CITY
siri	mumbai
app	pune

Below the table, it says "2 rows returned in 0.04 seconds" and has a "CSV Export" link. The status bar at the bottom right shows "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."

`CREATE TABLE Athr (login varchar(20),name varchar(20), PRIMARY KEY(login))`
`DESC ATHR`

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:3567218148437018::NO:::. The page title is "SQL Commands". The SQL command entered is "DESC ATHR". Below the command, the results show the structure of the ATHR table:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ATHR	LOGIN	Varchar2	20	-	-	1	-	-	-
	NAME	Varchar2	20	-	-	-	✓	-	-

Below the table structure, there is a note: "1 - 2". At the bottom of the interface, it says "Language: en-us" and "Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved."

SELECT * FROM ATHR

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:3740488738210388::NO:::. The page title is "SQL Commands". The SQL command entered is "select * from ATHR". Below the command, the results show the data in the ATHR table:

LOGIN	NAME
RG	Rajat
SD	Shashank

Below the table, it says "2 rows returned in 0.05 seconds" and "CSV Export". At the bottom of the interface, it says "Language: en-us" and "Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved."

CREATE TABLE Wrte (login varchar(20),url varchar(20), FOREIGN KEY (login) REFERENCES Athr(login));

DESC WRTE

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The title bar indicates the connection is to 202.12.103.189:8080/apex/f?p=4500:1003:3567218148437018::NO:::. The main area displays the description of the WRTE table:

```
DESC WRTE
```

Object Type TABLE Object WRTE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
WRTE	LOGIN	VARCHAR2	20	-	-	✓	-	-	
	URL	VARCHAR2	20	-	-	✓	-	-	

Results Explain Describe Saved SQL History

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

SELECT * FROM WRTE

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The title bar indicates the connection is to 202.12.103.189:8080/apex/f?p=4500:1003:3740488738210388::NO:::. The main area displays the results of the query:

```
select * from WRTE
```

LOGIN	URL
RG	schand
SD	Alread

Results Explain Describe Saved SQL History

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

CREATE TABLE stre (sid number(20),sname varchar(20), PRIMARY KEY(sid))

DESC STRE

The screenshot shows the Oracle Database Express Edition SQL Commands interface. A table named STRE is being created with two columns: SID (Number) and SNAME (Varchar2).

```

CREATE TABLE STRE
(
    SID NUMBER,
    SNAME VARCHAR2(20)
);

```

The table structure is displayed in the Results tab:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STRE	SID	Number	-	20	0	1	-	-	-
	SNAME	Varchar2	20	-	-	-	✓	-	-

SELECT * FROM STRE

The screenshot shows the Oracle Database Express Edition SQL Commands interface. A query is executed to select all columns from the STRE table.

```

SELECT * FROM STRE;

```

The results are displayed in the Results tab:

SID	SNAME
1	frnx
2	Rcity
3	ddcity
4	Rcity
5	dcity

5 rows returned in 0.01 seconds

**CREATE TABLE p_t (pid number(20),pname varchar(20),price number(20),sid number(20),
FOREIGN KEY(sid) REFERENCES stre(sid))**

DESC P_T

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

DESC P_T

Object Type TABLE Object P_T

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
P_T	PID	Number	-	20	0	-	✓	-	-
	PNAME	Varchar2	20	-	-	-	✓	-	-
	PRICE	Number	-	20	0	-	✓	-	-
	SID	Number	-	20	0	-	✓	-	-

1 - 4

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

SELECT * FROM P_T

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

select * from P_T

Results Explain Describe Saved SQL History

PID	PNAME	PRICE	SID
50	chat	500	5
10	pizza	100	1
20	burger	150	2
30	finger	200	3
40	tikki	400	4

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

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

CREATE TABLE p_r_s_n (age number(20),height number(20), weight number(20))
 DESC P_R_S_N

The screenshot shows the Oracle Database Express Edition SQL Commands interface in a Chrome browser. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:3567218148437018::NO:::. The page displays the creation of a table named P_R_S_N with three columns: AGE, HEIGHT, and WEIGHT, each of type Number with precision 20 and scale 0.

```
DESC P_R_S_N
```

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
P_R_S_N	AGE	Number	-	20	0	-	✓	-	-
	HEIGHT	Number	-	20	0	-	✓	-	-
	WEIGHT	Number	-	20	0	-	✓	-	-

Results Explain Describe Saved SQL History

Object Type TABLE Object P_R_S_N

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

```
SELECT * FROM P_R_S_N
```

The screenshot shows the Oracle Database Express Edition SQL Commands interface in a Chrome browser. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:3740488738210388::NO:::. The page displays the results of a SELECT * query on the P_R_S_N table, which returns four rows of data: (18, 6, 52), (20, 6, 100), (25, 6, 86), and (30, 5, 54).

```
select * from p_r_s_n
```

AGE	HEIGHT	WEIGHT
18	6	52
20	6	100
25	6	86
30	5	54

Results Explain Describe Saved SQL History

4 rows returned in 0.02 seconds CSV Export

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

```
CREATE TABLE p_r_d_c_t (name varchar(20),Category varchar (20),PRIMARY KEY(name))  
DESC P_R_D_C_T
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:3567218148437018::NO::

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

DESC P_R_D_C_T

Results Explain Describe Saved SQL History

Object Type TABLE Object P_R_D_C_T

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
P_R_D_C_T	NAME	Varchar2	20	-	-	1	-	-	-
	CATEGORY	Varchar2	20	-	-	-	✓	-	-

1 - 2

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

SELECT * FROM P_R_D_C_T

Microsoft Office Home Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:3740488738210388::NO::

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

select * from p_r_d_c_t

Results Explain Describe Saved SQL History

NAME	CATEGORY
Gizmo	gadget
Camera	Photo
OneClick	Photo

3 rows returned in 0.02 seconds CSV Export

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CHAPTER 4

IMPLEMENTATION OF DML COMMANDS

INSERTION DATA IN TABLE :-

```
INSERT INTO RP VALUES( 'Gizmo',10,'Gadgets','GizmoWorks');
```

```
INSERT INTO RP VALUES( 'Powergizmo',15,'Gadgets','GizmoWorks');
```

```
INSERT INTO RP VALUES( 'SingleTouch',20,'Photography','Canon');
```

```
INSERT INTO RP VALUES( 'MultiTouch',25,'Household','Hitachi');
```

DISPLAY THE TABLE :-

```
SELECT*FROM RP
```

The screenshot shows a Chrome browser window with the following details:

- Address Bar:** Shows "Not Secure | 202.12.103.189:8080/apex/f?p=450...".
- Title Bar:** "SQL Command".
- Header:** "ORACLE Database Express Edition".
- User:** AIB.
- Toolbar:** Includes "Home", "Logout", and "Help" buttons.
- Navigation:** "Home > SQL > SQL Commands".
- Form:** Contains checkboxes for "Autocommit" and "Display 10", and buttons for "Save" and "Run".
- Query Input:** "SELECT * FROM RP".
- Results:** A table showing four rows of data:

PNAME	PRICE	CATEGORY	MANUFACTURER
Gizmo	10	Gadgets	GizmoWorks
Powergizmo	15	Gadgets	GizmoWorks
SingleTouch	20	Photography	Canon
MultiTouch	25	Household	Hitachi
- Text:** "4 rows returned in 0.00 seconds" and a "CSV Export" link.
- Footer:** "Language: en-us", "Application Express 2.1.0.00.39", and "Copyright © 1999, 2006, Oracle. All rights reserved."
- Bottom Icons:** Icons for various applications like Mail, Calendar, and Microsoft Office.

SQL Query:-

```
SELECT * FROM RP WHERE category = 'Gadgets' ;
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.1 SQL Command

Not Secure | 202.12.103.189:8080/apex/f?p=450...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT * FROM RP WHERE Category='Gadgets';
```

Results Explain Describe Saved SQL History

PNAME	PRICE	CATEGORY	MANUFACTURER
Gizmo	10	Gadgets	GizmoWorks
Powergizmo	15	Gadgets	GizmoWorks

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

Application Express 2.1.0.00.39

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



```
SELECT * FROM RP WHERE PRICE<100;
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone | 202.12.103.1 | SQL Command

Not Secure | 202.12.103.189:8080/apex/f?p=450...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT * FROM RP WHERE Price<100;
```

Results Explain Describe Saved SQL History

PNAME	PRICE	CATEGORY	MANUFACTURER
Gizmo	10	Gadgets	GizmoWorks
Powergizmo	15	Gadgets	GizmoWorks
SingleTouch	20	Photography	Canon
MultiTouch	25	Household	Hitachi

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

Application Express 2.1.0.00.39

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



```
SELECT * FROM RP WHERE PRICE =10;
```

Microsoft Teams Edit View Window Help

Amizone 202.12.103.1 SQL Command +

Not Secure | 202.12.103.189:8080/apex/f?p=450... Home Logout Help

ORACLE Database Express Edition User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

SELECT*FROM RP WHERE PRICE=10

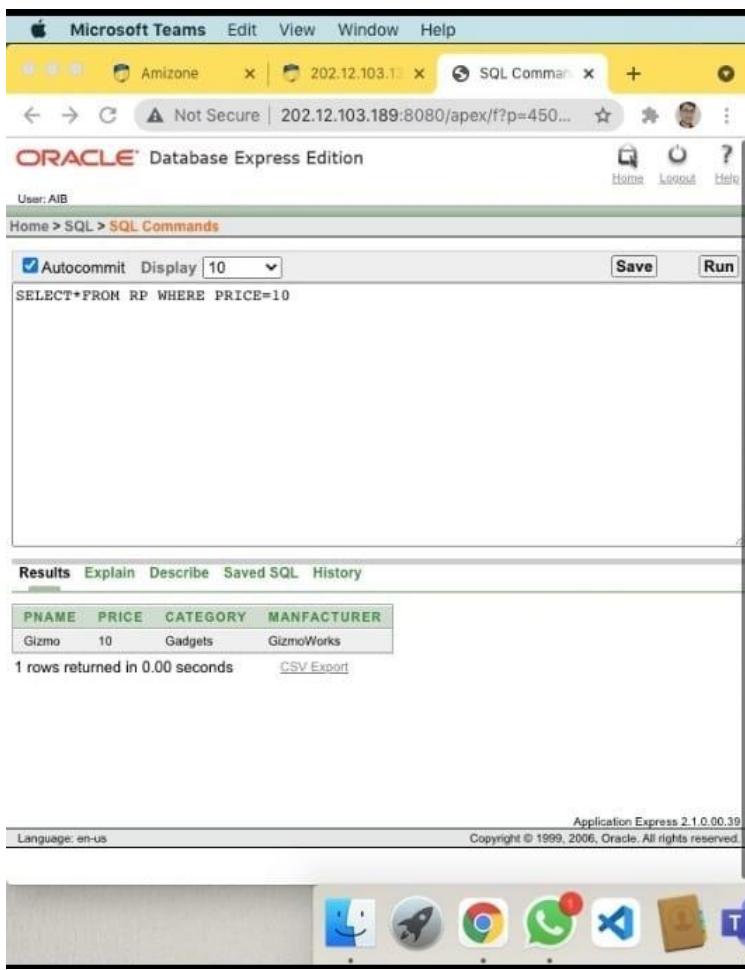
Results Explain Describe Saved SQL History

PNAME	PRICE	CATEGORY	MANUFACTURER
Gizmo	10	Gadgets	GizmoWorks

1 rows returned in 0.00 seconds CSV Export

Application Express 2.1.0.0.39

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



SELECT*FROM man

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:2111668116...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

SELECT*FROM man

Results Explain Describe Saved SQL History

PNAME	PRICE	CATEGORY	MANUFACTURER
Powergizmo	30	Gadgets	GizmoWorks
Gizmo	20	Gadgets	GizmoWorks
Single	150	Photography	Canon
MultiTouch	204	Household	Hitachi

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

Application Express 2.1.0.0.39
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.



The screenshot shows a Chrome browser window displaying the Oracle Database Express Edition SQL interface. The user is running a query against a table named 'man'. The results show four rows of data: Powergizmo (Price: 30, Category: Gadgets, Manufacturer: GizmoWorks), Gizmo (Price: 20, Category: Gadgets, Manufacturer: GizmoWorks), Single (Price: 150, Category: Photography, Manufacturer: Canon), and MultiTouch (Price: 204, Category: Household, Manufacturer: Hitachi). Below the table, it indicates 4 rows returned in 0.00 seconds and provides a CSV export link. At the bottom, there's a standard Mac OS X dock with various application icons. The browser's status bar at the bottom also displays the Application Express version and copyright information.

SELECT*FROM manu

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:2111668116...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT*FROM manu
```

Results Explain Describe Saved SQL History

CNAME	STOCKPRICE	COUNTRY
GizmoWorks	25	usa
Canon	65	japan
Hitachi	15	japan

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

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



SELECT*FROM manu , manwhere manfacturer=CName

Microsoft Teams Edit View Window Help

Amizone 202.12.103.135/viab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:2111668116...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT cOUNTRY FROM manu,man where manufacturer=CName
```

Results Explain Describe Saved SQL History

COUNTRY
usa
usa
japan
japan

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

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



```
SELECT COUNTRY FROM manu , man  where manufacturer = CName AND
Category='Gadgets';
```

Microsoft Teams Edit View Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

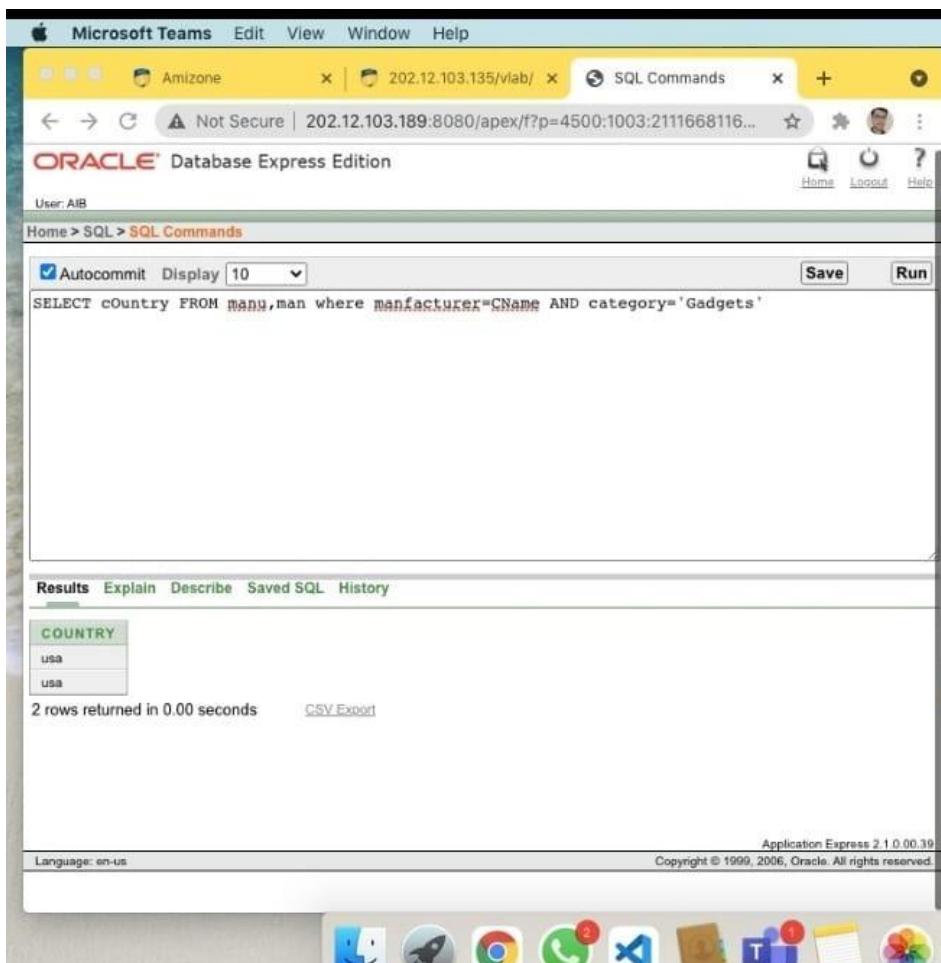
```
SELECT country FROM many,man where manufacturer=CName AND category='Gadgets'
```

Results Explain Describe Saved SQL History

COUNTRY
usa
usa

2 rows returned in 0.00 seconds CSV Export

Application Express 21.0.0.0.19
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.



```
SELECT DISTINCT PP.PName ,C_pn.Address
FROM PP,c_pn
WHERE PP.wrksfor = C_pn.CName
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:887852982517138::...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT DISTINCT PP.PName , C_pn.Address
FROM PP,C_pn
WHERE PP.worksfor = C_pn.CName
```

Results Explain Describe Saved SQL History

PNAME	ADDRESS
SHASHANK	INDORE
RAJAT	GWL
RAM	RATLAM

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

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

Language: en-us



SELECT * FROM C_N,PP

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135 SQL Command SQL FOREIGN +

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:887852982517... Save Run

Autocommit Display 10 .LUES('RAM','DSECTOR','MITS') 0/1

SELECT * FROM C_N,PF

Results Explain Describe Saved SQL History

CNAME	ADDRESS	PNAME	ADDRESS	WRKSFOR
AMITY	GWL	RAJAT	DONAGAR	AMITY
HOME	INDORE	RAJAT	DONAGAR	AMITY
MTS	RATLAM	RAJAT	DONAGAR	AMITY
MTS	RATLAM	RAJAT	DONAGAR	AMITY
AMITY	GWL	SHASHANK	BSECTOR	HOME
HOME	INDORE	SHASHANK	BSECTOR	HOME
MTS	RATLAM	SHASHANK	BSECTOR	HOME
MTS	RATLAM	SHASHANK	BSECTOR	HOME
AMITY	GWL	RAM	DSECTOR	MTS
HOME	INDORE	RAM	DSECTOR	MTS

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

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

Application Express 2.1 0.00.30
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Language: en-us

SELECT * FROM PRSN,CMPNY

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The top navigation bar includes WhatsApp, File, Edit, View, Chat, Window, Help, Amizone, 202.12.103.135/vlab/, SQL Commands, and a plus sign for new tabs. Below the bar, it says "Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:2111668116...". The main title is "ORACLE Database Express Edition". The user is "AIB". The breadcrumb trail is Home > SQL > SQL Commands. The SQL editor contains the query "SELECT * FROM PRSN,CMPNY". The results section displays a table with four rows:

PNAME	ADDRESS	WRKSFOR	CNAME	ADDRESS
rajat	ddnagar	acc	amity	airprt
rajat	ddnagar	acc	rgps	bpart
manas	cmpx	cde	amity	airprt

Below the table, it says "4 rows returned in 0.00 seconds" and has a "CSV Export" link. The bottom footer includes "Application Express 2.1.0.00.39", "Language: en-us", and "Copyright © 1999, 2006, Oracle. All rights reserved." A toolbar with various icons is at the bottom.

SELECT DISTINCT PRSN.PNAME,CMPNY.ADDRESS

FROM prsn,cmpny

Where prsn.wrksfor = Cmpny.cname

Microsoft Teams Edit View Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:2111668116...

ORACLE Database Express Edition

User: AlB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT DISTINCT P.rsn.pname, Cmpny.address FROM P.rsn, Cmpny  
WHERE P.rsn.wrksfor = Cmpny.cname
```

Results Explain Describe Saved SQL History

PNAME	ADDRESS	WRKSFOR	CNAME	ADDRESS
rajat	ddnagar	acc	acc	airprt
rajat	ddnagar	acc	rgps	bpart
manas	cmpx	cde	acc	airprt
manas	cmpx	cde	rgps	bpart

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

Application Express 2.1.0.0.0.39
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.



```
SELECT PName  
FROM Prdct  
WHERE Price < ALL (SELECT Price  
                  FROM Prdct  
                  WHERE maker = 'Hitachi');
```

MICROSOFT TEAMS EDIT VIEW WINDOW HELP

Amizone 202.12.103.135/vlab SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT PName
FROM Prdct
WHERE Price < ALL (SELECT Price
                     FROM Prdct
                     WHERE maker = 'Hitachi');
```

Results Explain Describe Saved SQL History

PNAME
Gizmo
Powergizmo
SingleTouch

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

Language: en-us

SELECT * FROM PRODUCT_V

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:16355858...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
SELECT *  
FROM PRODUCT_V
```

Results Explain Describe Saved SQL History

PNAME	PRICE	CATEGORY	MANUFACTURER
Gizmo	20	Gadgets	GizmoWorks
Powergizmo	30	Gadgets	GizmoWorks
SingleTouch	150	Photography	Canon
MultiTouch	204	Household	Hitachi

4 rows returned in 0.17 seconds CSV Export

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



```
SELECT PNAME  
FROM PRODUCT_V  
WHERE PRICE > ALL(SELECT PRICE  
                  FROM PRODUCT_V  
                  WHERE MANUFACTURER = 'Gizmoworks');
```

WhatsApp File Edit View Chat Window Help

Amizone 202.12.103.135/vlab SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:66429707...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT PNAME
FROM Product_V
WHERE PRICE > ALL (SELECT PRICE
                     FROM Product_V
                     WHERE manufacturer= 'GizmoWorks');
```

Results Explain Describe Saved SQL History

PNAME

SingleTouch
MultiTouch

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

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DESC PCHSN

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlai SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:16355858... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

desc Pchse |

Results Explain Describe Saved SQL History

Object Type TABLE Object PCHSE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PCHSE	ID	Number	-	20	0	-	✓	-	-
	PRODUCT	Varchar2	20	-	-	-	✓	-	-

1 - 2

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DESC PDUCT

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:16355858... Star

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

desc Pduct

Results Explain Describe Saved SQL History

Object Type TABLE Object PDUCT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PDUCT	PNAME	Varchar2	20	-	-	1	-	-	-
PDUCT	MAKER	Varchar2	20	-	-	-	✓	-	-

1 - 2

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DESC CPNY

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:16355858... ☆

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
desc cny
```

Results Explain Describe Saved SQL History

Object Type TABLE Object CNY

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CNY	NAME	Varchar2	20	-	-	1	-	-	-
	CITY	Varchar2	20	-	-	-	✓	-	-

1 - 2

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



```
SELECT * FROM CNY,PDUCT,PCHSN
```

The screenshot shows a Chrome browser window with two tabs: 'Amizone' and 'SQL Commands'. The 'SQL Commands' tab displays the ORACLE Database Express Edition interface. The user is logged in as 'AIB'. The current page is 'Home > SQL > SQL Commands'. A SQL query is entered in the editor:

```
SELECT * FROM Cpny, Pduct, pchse
```

The results section shows a table with the following data:

NAME	CITY	PNAME	MAKER	ID	PRODUCT
amazon	mumbai	iphone	amazon	88	iphone
amazon	mumbai	iphone	amazon	66	samsung
amazon	mumbai	samsung	flipkart	88	iphone
amazon	mumbai	samsung	flipkart	66	samsung
flipkart	delhi	iphone	amazon	88	iphone
flipkart	delhi	iphone	amazon	66	samsung
flipkart	delhi	samsung	flipkart	88	iphone
flipkart	delhi	samsung	flipkart	66	samsung

Below the table, it says '8 rows returned in 0.09 seconds' and has a 'CSV Export' link. The bottom of the screen shows the Application Express toolbar with various icons.

SUBQUERIES RETURNING RELATIONS:-

```
SELECT DISTINCT Cpny.city
FROM cpny
WHERE cpny.name IN
  (SELECT Pduct.maker
   FROM pchs,pduct
   WHERE pduct.pname=pchs.product
   AND pchs.buyer='rajat gupta');
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:16355858...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT Cpny.city
FROM cpny
WHERE Cpny.name IN
      (SELECT Pduct.maker
       FROM pchs,pduct
       WHERE pduct.pname=pchs.product
       AND pchs.buyer='rajat gupta');
```

Results Explain Describe Saved SQL History

CITY
mumbai

1 rows returned in 0.18 seconds [CSV Export](#)

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



```
SELECT Cpny.city
FROM cpny
WHERE Cpny.name IN
      (SELECT Pduct.maker
       FROM pchs,pduct
       WHERE pduct.pname=pchs.product
       AND pchs.buyer='shashank');
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vial SQL Commands

Not Secure 202.12.103.189:8080/apex/f?p=4500:1003:16355858...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT Cnny.city
FROM Cnny
WHERE Cnny.name IN
  (SELECT Pduct.maker
   FROM pchs.pduct
   WHERE pdtct.pname=pchs.product
   AND pchs.buyer='shashank');
```

Results Explain Describe Saved SQL History

CITY
delhi

1 rows returned in 0.03 seconds [CSV Export](#)

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

SELECT * FROM CPNY,PDUCT,PCHS

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:16355858... User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
SELECT *FROM Cpony,Product,pchs
```

Results Explain Describe Saved SQL History

NAME	CITY	PNAME	MAKER	ID	PRODUCT	BUYER
amazon	mumbai	iphone	amazon	88	iphone	rajat gupta
amazon	mumbai	samsung	flipkart	88	iphone	rajat gupta
flipkart	delhi	iphone	amazon	88	iphone	rajat gupta
flipkart	delhi	samsung	flipkart	88	iphone	rajat gupta
amazon	mumbai	iphone	amazon	66	samsung	shashank
amazon	mumbai	samsung	flipkart	66	samsung	shashank
flipkart	delhi	iphone	amazon	66	samsung	shashank
flipkart	delhi	samsung	flipkart	66	samsung	shashank

8 rows returned in 0.04 seconds [CSV Export](#)

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



```
SELECT pname,price
FROM manu,man
where manfacturer=CName AND country='japan'
AND price<=200
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT pname,price FROM manu,man where manufacturer=CName AND country='japan' AND price<=200
```

Results Explain Describe Saved SQL History

PNAME	PRICE
Single	150

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

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



```
SELECT avg(price)  
FROM Prdct  
WHERE maker = 'Hitachi'
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

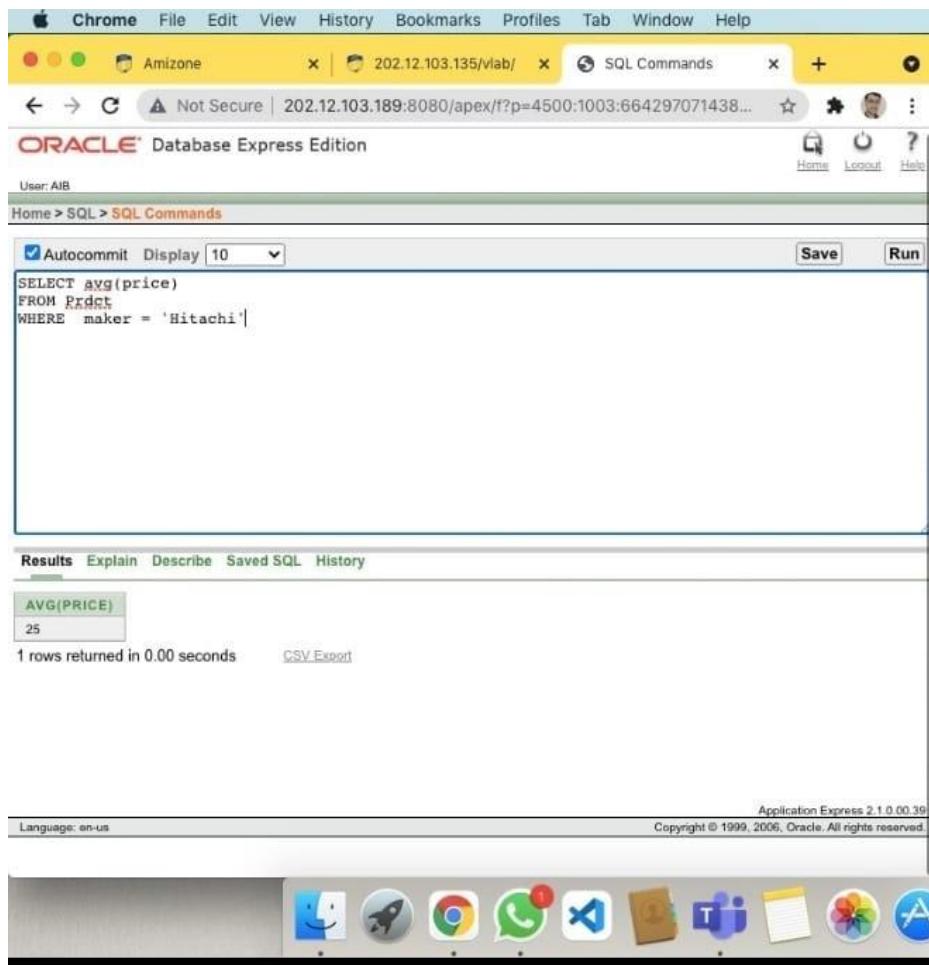
```
SELECT avg(price)
FROM prdct
WHERE maker = 'Hitachi'
```

Results Explain Describe Saved SQL History

AVG(PRICE)
25

1 rows returned in 0.00 seconds CSV Export

Language: en-us Application Express 2.1.0.00.39
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```
SELECT Count(DISTINCT category)
FROM P_d_t
WHERE year > 1185
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

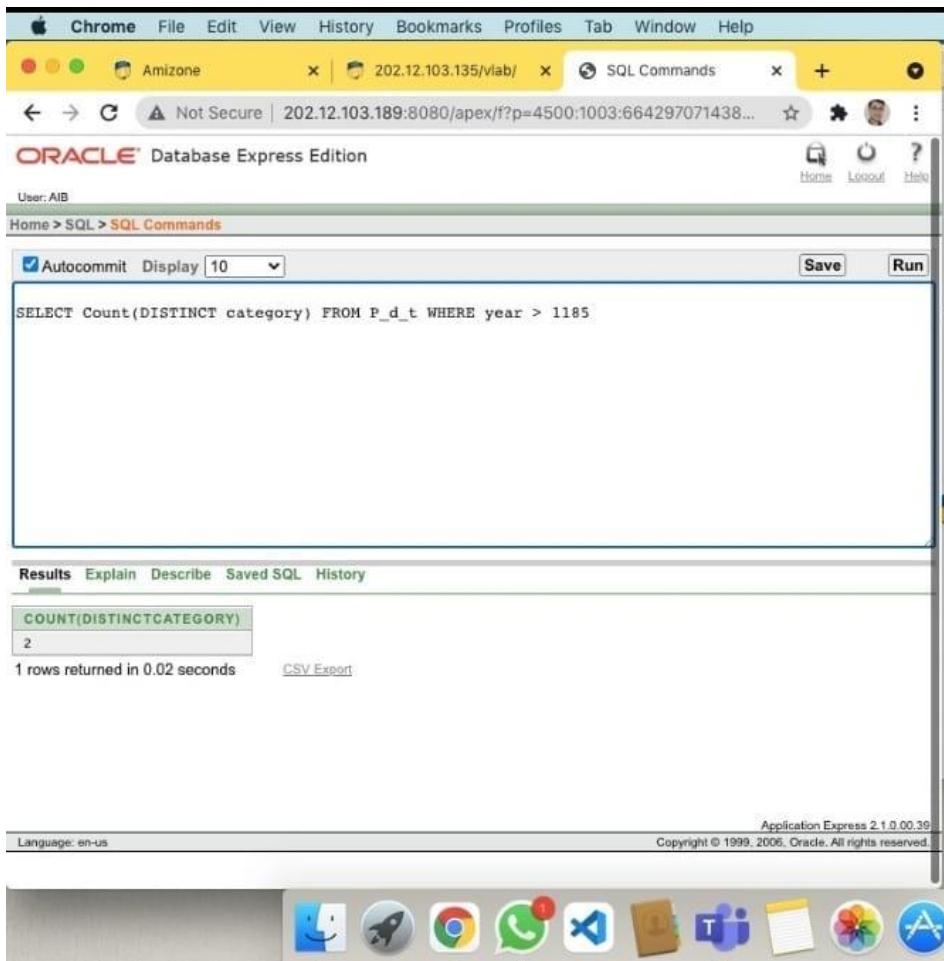
```
SELECT Count(DISTINCT category) FROM P_d_t WHERE year > 1185
```

Results Explain Describe Saved SQL History

COUNT(DISTINCTCATEGORY)
2

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

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



```
SELECT * FROM P_C_H_S
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438... ☆

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
SELECT * FROM P_C_H_S
```

Results Explain Describe Saved SQL History

PRODUCT	P_DATE	PRICE	QUANTITY
phone	27-12-2002	200	2
shirt	28-08-2002	800	2
bag	19-10-2002	2000	4
t-shirt	08-08-2002	1000	1

4 rows returned in 0.01 seconds CSV Export

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



```
SELECT Sum(price * quantity) FROM P_C_H_S
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone | 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT Sum(price * quantity) FROM P_C_H_S
```

Results Explain Describe Saved SQL History

SUM(PRICE*QUANTITY)
11000

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

Application Express 2.1.0.00.39
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Language: en-us



```
SELECT Sum(price * quantity)  
FROM P_C_H_S  
WHERE product = 'bag'
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT Sum(price * quantity) FROM P_C_H_S WHERE product = 'bag'
```

Results Explain Describe Saved SQL History

SUM(PRICE*QUANTITY)
8000

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

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



```
SELECT Sum(price + quantity)  
FROM P_C_H_S  
WHERE product = 'bag'
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone | 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT Sum(price + quantity) FROM P_C_H_S WHERE product = 'bag'
```

Results Explain Describe Saved SQL History

SUM(PRICE+QUANTITY)
2004

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

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



```
SELECT Sum(price )
```

```
FROM P_C_H_S
```

WhatsApp File Edit View Chat Window Help

Amizone 20.12.103.135/vlab/ SQL Commands

Not Secure | 20.12.103.189:8080/apex/f?p=4500:1003:664297071438... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT Sum(price) FROM P_C_H_S
```

Results Explain Describe Saved SQL History

SUM(PRICE)
4000

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

Language: en-us Application Express 2.1.0.00.39
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```
SELECT product, Sum(price*quantity) AS TotalSales
FROM P_C_H_S
WHERE p_date > '08-08-2002'
GROUP BY product
```

Screenshot of Oracle Database Express Edition SQL Commands interface.

User: AIB

Home > SQL > SQL Commands

Autocommit: Display: 10

```
SELECT product, Sum(price*quantity) AS TotalSales
FROM P_C_H_S
WHERE p_date > '08-08-2002'
GROUP BY product
```

Results

PRODUCT	TOTALSALES
phone	400
bag	8000
shirt	1600

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

Application Express 2.1.0.0.39
Language: en-US Copyright © 1999, 2006, Oracle. All rights reserved.



```
SELECT Sum(price)
```

```
FROM P_C_H_S
```

The screenshot shows the Oracle Database Express Edition SQL Commands interface. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:664297071438... . The query entered is:

```
SELECT Sum(price_) FROM P_C_H_S
```

The results section shows:

SUM(PRICE)
4000

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

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

```
SELECT DISTINCT x.product,(SELECT Sum(y.price*y.quantity)
                           FROM P_C_H_S y
                          WHERE x.product = y.product
                            AND Y.p_date > '08-08-2002')
                        AS TotalSales
FROM P_C_H_S x
WHERE p_date > '08-08-2002'
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438... :

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT DISTINCT x.product,(SELECT Sum(y.price*y.quantity)
    FROM P_C_H_S y
    WHERE x.product = y.product
    AND Y.p_date > '08-08-2002')
AS TotalSales
FROM P_C_H_S x
WHERE p_date > '08-08-2002'
```

Results Explain Describe Saved SQL History

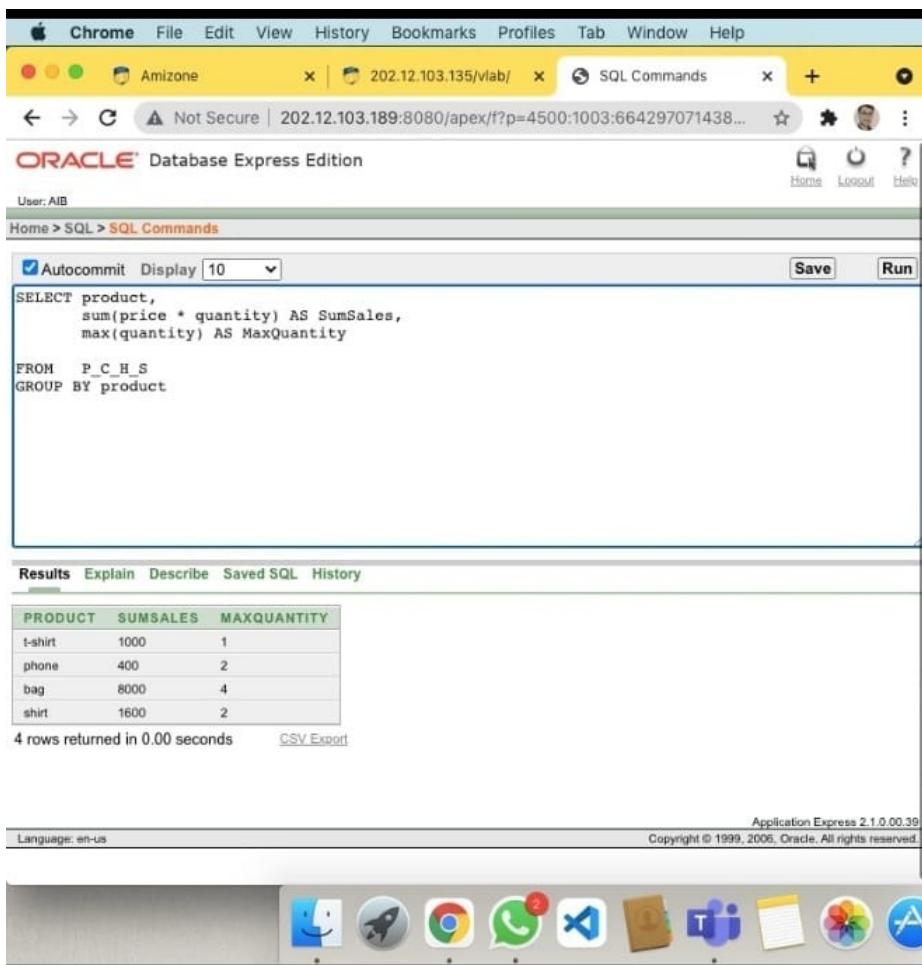
PRODUCT	TOTALSALES
bag	8000
shirt	1600
phone	400

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

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

```
SELECT product,
       sum(price * quantity) AS SumSales,
       max(quantity) AS MaxQuantity
```

```
FROM P_C_H_S
GROUP BY product
```



The screenshot shows a Chrome browser window with the following details:

- Address Bar:** 202.12.103.135/vlab/SQL Commands
- Title Bar:** ORACLE Database Express Edition
- User:** AIB
- Toolbar Buttons:** Home, Logout, Help
- SQL Editor:**
 - Autocommit checked, Display 10 dropdown.
 - Save and Run buttons.
 - SQL Query:

```
SELECT product,
       sum(price * quantity) AS SumSales,
       max(quantity) AS MaxQuantity
  FROM P_C_H_S
 GROUP BY product;
```
- Results Tab:** Results, Explain, Describe, Saved SQL, History.
- Result Grid:**

PRODUCT	SUMSALES	MAXQUANTITY
t-shirt	1000	1
phone	400	2
bag	8000	4
shirt	1600	2
- Message:** 4 rows returned in 0.00 seconds
- CSV Export:**
- Page Footer:** Application Express 2.1.0.00.39, Copyright © 1999, 2006, Oracle. All rights reserved.
- OS Dock:** Shows various application icons including Finder, Mail, Safari, Google Chrome, iMessage, App Store, iTunes, and others.

```
SELECT product, sum(price * quantity)
FROM P_C_H_S
WHERE p_date > '08-08-2002'
GROUP BY product
HAVING Sum(quantity) > 2
```

WhatsApp File Edit View Chat Window Help

Amizone | 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:664297071438...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT product,
       sum(price * quantity)
  FROM P_C_H_S
 WHERE p_date > '08-08-2002'
 GROUP BY product
 HAVING sum(quantity) > 2
```

Results Explain Describe Saved SQL History

PRODUCT	SUM(PRICE*QUANTITY)
bag	8000

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

Application Express 2.1.0.0.1
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(SELECT R.A,R.B

FROM R)

INTERSECT

(SELECT S.A,S.B

FROM R)

(OR)

SELECT R.A, R.B FROM R WHERE

EXISTS(SELECT * FROM S

WHERE R.A=S.A and R.B=S.B)

CHROME FILE EDIT VIEW HISTORY BOOKMARKS FAVORITES TAB WINDOW HELP

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.139:8080/apex/f?p=4500:1003:380735754... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT R.A, R.B FROM R WHERE
EXISTS(SELECT * FROM S
WHERE R.A=S.A and R.B=S.B)
```

Results Explain Describe Saved SQL History

A	B
RAJAT	SHASHANK
RAJAT	SHASHANK

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

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



SELECT *FROM raj ,raja

The screenshot shows a Chrome browser window with three tabs: 'Amizone', 'Not Secure | 202.12.103.135/vlab/' (the active tab), and 'SQL Commands'. The main content area is titled 'ORACLE Database Express Edition' and shows the user 'AIB'. The URL is 'Home > SQL > SQL Commands'. A dropdown menu shows 'Autocommit' checked and 'Display 10'. Below is a SQL query: 'SELECT *FROM raj ,raja'. The results section displays a table with four rows:

CNAME	CITY	PNAME	PRICE	COMPANY
siri	mumbai	iphne	2000	siri
app	pune	iphne	2000	siri
siri	mumbai	mac	200000	app

Below the table, it says '4 rows returned in 0.02 seconds' and has a 'CSV Export' link. At the bottom, it shows 'Language: en-us', 'Application Express 2.1.0.0.39', and 'Copyright © 1999, 2006, Oracle. All rights reserved.' The Mac OS X dock at the bottom of the screen shows icons for Mail, Finder, Google Chrome, WhatsApp, Visual Studio Code, Bookmarks, Microsoft Word, and others.

```
SELECT DISTINCT raj.cname
FROM raj, raja
WHERE raj.cname = raja.company and raja.price
>200
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:380735754...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT DISTINCT raj.cname
FROM raj, raja
WHERE raj.cname = raja.company and raja.price
>200|
```

Results Explain Describe Saved SQL History

CNAME
siri
app

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

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



The screenshot shows a Chrome browser window displaying the Oracle Database Express Edition SQL Commands interface. The SQL query entered is: "SELECT DISTINCT raj.cname FROM raj, raja WHERE raj.cname = raja.company and raja.price >200". The results table shows two rows: 'siri' and 'app'. At the bottom, the Application Express version is listed as 2.1.0.00.39, along with language information and copyright details. Below the browser window is a Mac OS X Dock with various application icons.

```
SELECT DISTINCT raj.cname FROM raj
WHERE raj.cname NOT IN (SELECT raja.company
                        FROM raja
                        WHERE raja.price <= 4000)
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:380735754... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT DISTINCT raj.cname FROM raj
WHERE raj.cname NOT IN (SELECT raja.company
FROM raja
WHERE raja.price
<= 4000)
```

Results Explain Describe Saved SQL History

CNAME
app

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

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

```
SELECT DISTINCT raj.cname FROM raj
WHERE raj.cname NOT IN (SELECT raja.company
FROM raja
WHERE raja.price >= 4000)
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vlab/ SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:380735754...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT DISTINCT raj.cname FROM raj
WHERE raj.cname NOT IN (SELECT raja.company
FROM raja
WHERE raja.price
    >= 4000)
```

Results Explain Describe Saved SQL History

CNAME
siri

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

Application Express 2.1 0.00.39
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.



SELECT * FROM Stre, p_t

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone | 202.12.103.135/vl... | SQL Commands

Autocommit

```
CREATE TABLE stre (sid number(20),sname varchar(20), PRIMARY KEY(sid))
CREATE TABLE p_t (pid number(20),pname varchar(20),price number(20),sid number(20),
FOREIGN KEY(sid) REFERENCES stre(sid))

INSERT INTO stre VALUES((1),'finix')
INSERT INTO stre VALUES((2),'Rcity')
INSERT INTO stre VALUES((3),'ddcity')
INSERT INTO stre VALUES((4),'Rdcity')

INSERT INTO p_t VALUES((10),'pizza',(100),(1))
INSERT INTO p_t VALUES((20),'burger',(150),(2))
INSERT INTO p_t VALUES((30),'finger',(200),(3))
INSERT INTO p_t VALUES((40),'tikki',(400),(4))
```

Results Explain Describe Saved SQL History

SID	SNAME	PID	PNAME	PRICE	SID
1	finix	10	pizza	100	1
2	Rcity	10	pizza	100	1
3	ddcity	10	pizza	100	1
4	Rdcity	10	pizza	100	1
1	finix	20	burger	150	2
2	Rcity	20	burger	150	2
3	ddcity	20	burger	150	2
4	Rdcity	20	burger	150	2
1	finix	30	finger	200	3
2	Rcity	30	finger	200	3

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

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

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

```
SELECT Stre.sname, max(p_t.price)
FROM Stre, p_t
WHERE Stre.sid = p_t.sid
GROUP BY Stre.sid, Stre.sname
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone | 202.12.103.135/vl... | SQL Commands

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
INSERT INTO p_t VALUES((10), 'pizza ',(100),(1))
INSERT INTO p_t VALUES((20),'burger',(150),(2))
INSERT INTO p_t VALUES((30),'finger',(200),(3))
INSERT INTO p_t VALUES((40),'tikki',(400),(4))

SELECT *from stre,p_t
SELECT Stre.sname, max(p_t.price)
FROM Stre, p_t
WHERE Stre.sid = p_t.sid
GROUP BY Stre.sid, Stre.sname
```

Results Explain Describe Saved SQL History

SNAME	MAX(P_T.PRICE)
Rcity	150
ddcity	200
finix	100
Rdcity	400

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

Application Express 2.1.0.0.39

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

javascript:popupURL('www_flow_help.show_help?p_lang=en-us&p_session=3089353023426846&p_flow_id=4500&p...')

```
SELECT Stre.sname, x.pname
FROM Stre, p_t x
WHERE Stre.sid = x.sid and
x.price >= ALL (SELECT y.price
FROM p_t y
WHERE Stre.sid = y.sid)
```

Amizone | 202.12.103.135/vtn | SQL Commands | +

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT *from stre,p_t
SELECT Stre.sname, max(p_t.price)
FROM Stre, p_t
WHERE Stre.sid = p_t.sid
GROUP BY Stre.sid, Stre.sname

SELECT Stre.sname, x.pname
FROM Stre, p_t x
WHERE Stre.sid = x.sid and
x.price >=
ALL (SELECT y.price
FROM p_t y WHERE Stre.sid = y.sid)
```

Results Explain Describe Saved SQL History

SNAME	PNAME
finix	pizza
Roity	burger
ddcity	finger
Rdcity	likki

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

Application Express 2.1.0.0.39
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.

```
SELECT Stre.sname, max(x.pname)
FROM Stre, P_t x
WHERE Stre.sid = x.sid and
x.price >= ALL (SELECT y.price
FROM P_t y
WHERE Stre.sid = y.sid)
GROUP BY Stre.sname
```

Amizone 202.12.103.135/vls SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
FROM Stre, p__t x
WHERE Stre.sid = x.sid and
x.price >=
ALL (SELECT y.price
FROM p__t y WHERE Stre.sid = y.sid)

SELECT Stre.sname, max(x.pname)
FROM Stre, P__t x
WHERE Stre.sid = x.sid and
x.price >=
ALL (SELECT y.price
FROM P__t y
WHERE Stre.sid = y.sid)
GROUP BY Stre.sname
```

Results Explain Describe Saved SQL History

SNAME	MAX(X.PNAME)
Rdcty	tikki
finix	pizza
dbcity	chat
ddcity	finger
Rcty	burger

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

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



```
SELECT Stre.sname, x.pname
FROM Stre, p__t x
WHERE Stre.sid = x.sid and
x.price >300
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone | 202.12.103.135/vl... | SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
FROM Stre, p_t
WHERE Stre.sid = p_t.sid
GROUP BY Stre.sid, Stre.sname
```

2nd type same query:-

```
SELECT Stre.sname, x.pname
FROM Stre, p_t x
WHERE Stre.sid = x.sid and
x.price >300
ALL (SELECT y.price
FROM p_t y WHERE Stre.sid = y.sid)
```

Results Explain Describe Saved SQL History

SNAME	PNAME
dbcity	chat
Rdcity	tiki

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

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



```
SELECT *
from p_r_s_n
WHERE (age < 25) AND
(height >5.8 OR weight > 100)
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vl SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE p_r_s_n (age number(20),height number(20), weight number(20))

INSERT INTO p_r_s_n VALUES((18), (5.6),(52))
INSERT INTO p_r_s_n VALUES((20), (5.8),(100))
INSERT INTO p_r_s_n VALUES((25), (5.5),(86))
INSERT INTO p_r_s_n VALUES((30), (5.2),(54))

SELECT *
from p_r_s_n
WHERE (age < 25) AND
(height >5.8 OR weight > 100)
```

Results Explain Describe Saved SQL History

AGE	HEIGHT	WEIGHT
18	6	52
20	6	100

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

Application Express 2.1.0.00.39

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```
SELECT *
from p_r_sn
WHERE (age <= 25) AND
(height < 6 OR weight < 100)
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vl SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE p_r_sn (age number(20),height number(20), weight number(20))

INSERT INTO p_r_sn VALUES((18), (6),(52))
INSERT INTO p_r_sn VALUES((20), (5),(100))
INSERT INTO p_r_sn VALUES((25), (7),(86))
INSERT INTO p_r_sn VALUES((30), (8),(54))

SELECT *
from p_r_sn
WHERE (age < 25) AND
(height < 6 OR weight < 100)
```

Results Explain Describe Saved SQL History

AGE	HEIGHT	WEIGHT
18	6	52
20	5	100

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

Application Express 2.1.0.00.39

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



```
SELECT *
from p_r_sn
WHERE (age <= 25) AND
(height < 8 OR weight < 100)
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vl... SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE p_r_sn (age number(20),height number(20), weight number(20))

INSERT INTO p_r_sn VALUES((18), (6),(52))
INSERT INTO p_r_sn VALUES((20), (5),(100))
INSERT INTO p_r_sn VALUES((25), (7),(86))
INSERT INTO p_r_sn VALUES((30), (8),(54))

SELECT *
from p_r_sn
WHERE (age <= 25) AND
(height < 8 OR weight < 100)
```

Results Explain Describe Saved SQL History

AGE	HEIGHT	WEIGHT
18	6	52
20	5	100
25	7	86

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

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

```
SELECT *
from p_r_sn
WHERE (age <= 20) AND
(height < 8 OR weight < 100)
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vi SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE p_r_sn (age number(20),height number(20), weight number(20))

INSERT INTO p_r_sn VALUES((18), (6),(52))
INSERT INTO p_r_sn VALUES((20), (5),(100))
INSERT INTO p_r_sn VALUES((25), (7),(86))
INSERT INTO p_r_sn VALUES((30), (8),(54))

SELECT *
from p_r_sn
WHERE (age <= 20) AND
(height < 8 OR weight < 100)
```

Results Explain Describe Saved SQL History

AGE	HEIGHT	WEIGHT
18	6	52
20	5	100

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

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

```
SELECT *
from p_r_sn
WHERE (age < 25 OR age > 25)
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vl SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE p_r_sn (age number(20),height number(20), weight number(20))

INSERT INTO p_r_sn VALUES((18), (6),(52))
INSERT INTO p_r_sn VALUES((20), (5),(100))
INSERT INTO p_r_sn VALUES((25), (7),(86))
INSERT INTO p_r_sn VALUES((30), (8),(54))

SELECT *
from p_r_sn
WHERE (age <25 OR age > 25)
```

Results Explain Describe Saved SQL History

AGE	HEIGHT	WEIGHT
18	6	52
20	5	100
30	8	54

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

Application Express 2.1.0.00.39
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```
SELECT *
from p_r_sn
WHERE (age <25 OR age >= 25)
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vl... SQL Commands +

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE p_r_sn (age number(20),height number(20), weight number(20))

INSERT INTO p_r_sn VALUES((18), (6),(52))
INSERT INTO p_r_sn VALUES((20), (5),(100))
INSERT INTO p_r_sn VALUES((25), (7),(86))
INSERT INTO p_r_sn VALUES((30), (8),(54))

SELECT *
from p_r_sn
WHERE (age <25 OR age >= 25)
```

Results Explain Describe Saved SQL History

AGE	HEIGHT	WEIGHT
18	6	52
20	5	100
25	7	86
30	8	54

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

Application Express 2.1.0.0.39
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.

```
SELECT *
from p_r_sn
WHERE age <15 OR age >= 35 OR age IS
NULL
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Amizone 202.12.103.135/vl SQL Commands

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
CREATE TABLE p_r_sn (age number(20),height number(20), weight number(20))

INSERT INTO p_r_sn VALUES((18), (6),(52))
INSERT INTO p_r_sn VALUES((20), (5),(100))
INSERT INTO p_r_sn VALUES((25), (7),(86))
INSERT INTO p_r_sn VALUES((30), (8),(54))
INSERT INTO p_r_sn VALUES((NULL), (4),(50))

SELECT *
from p_r_sn
WHERE age <15 OR age >= 35 OR age IS
NULL
```

Results Explain Describe Saved SQL History

AGE	HEIGHT	WEIGHT
4	50	

1 rows returned in 0.00 seconds CSV Export

Application Express 2.1.0.00.39

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



```
SELECT * from p_r_d_c_t,p_r_c_h_s
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

SQL Commands Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30... Save Run

Home > SQL > SQL Commands

```
CREATE TABLE p_r_d_c_t (name VARCHAR(20),Category VARCHAR(20),PRIMARY KEY(name))

INSERT INTO p_r_d_c_t VALUES('Gizmo','gadget')
INSERT INTO p_r_d_c_t VALUES('Camera','Photo')
INSERT INTO p_r_d_c_t VALUES('OneClick','Photo')

CREATE TABLE p_r_c_h_s(ProdName VARCHAR(20),Store VARCHAR(20), FOREIGN KEY(ProdName)
REFERENCES p_r_d_c_t(name))

INSERT INTO p_r_c_h_s VALUES('Gizmo','wiz')
INSERT INTO p_r_c_h_s VALUES('Camera','Ritz')
INSERT INTO p_r_c_h_s VALUES('Camera','wiz')

SELECT *from p_r_d_c_t,p_r_c_h_s
```

Results Explain Describe Saved SQL History

NAME	CATEGORY	PRODNAME	STORE
Gizmo	gadget	Camera	wiz
Gizmo	gadget	Gizmo	wiz
Gizmo	gadget	Camera	Ritz
Camera	Photo	Camera	wiz
Camera	Photo	Gizmo	wiz
Camera	Photo	Camera	Ritz
OneClick	Photo	Camera	wiz
OneClick	Photo	Gizmo	wiz
OneClick	Photo	Camera	Ritz

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

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

```
SELECT p_r_d_c_t.name, p_r_c_h_s.store
FROM p_r_d_c_t JOIN p_r_c_h_s ON
p_r_d_c_t.name = p_r_c_h_s.prodName
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

SQL Commands +

Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893530...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
CREATE TABLE p_r_c_h_s(ProdName varchar(20),Store varchar(20), FOREIGN KEY(ProdName) REFERENCES p_r_d_c_t(name))  
INSERT INTO p_r_c_h_s VALUES('Gizmo','wiz')  
INSERT INTO p_r_c_h_s VALUES('Camera','Ritz')  
INSERT INTO p_r_c_h_s VALUES('Camera','wiz')  
SELECT *from p_r_d_c_t,p_r_c_h_s  
SELECT p_r_d_c_t.name, p_r_c_h_s.store  
FROM p_r_d_c_t JOIN p_r_c_h_s ON  
p_r_d_c_t.name = p_r_c_h_s.prodName
```

Results Explain Describe Saved SQL History

NAME	STORE
Camera	wiz
Gizmo	wiz
Camera	Ritz

3 rows returned in 0.01 seconds CSV Export

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

```
SELECT p_r_d_c_t.name, p_r_c_h_s.store  
FROM p_r_d_c_t, p_r_c_h_s  
WHERE p_r_d_c_t.name = p_r_c_h_s.prodName
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

SQL Commands Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893530... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
FROM p_r_d_c_t JOIN p_r_c_h_s ON
p_r_d_c_t.name = p_r_c_h_s.prodName

SELECT p_r_d_c_t.name, p_r_c_h_s.store
FROM p_r_d_c_t, p_r_c_h_s
WHERE p_r_d_c_t.name = p_r_c_h_s.prodName

SELECT p_r_d_c_t.name, p_r_c_h_s.store
FROM p_r_d_c_t LEFT OUTER JOIN p_r_c_h_s ON
p_r_d_c_t.name = p_r_c_h_s.prodName
```

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

NAME	STORE
Camera	wiz
Gizmo	wiz
Camera	Ritz

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

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```
SELECT p_r_d_c_t.name, p_r_c_h_s.store
FROM p_r_d_c_t LEFT OUTER JOIN p_r_c_h_s ON
p_r_d_c_t.name = p_r_c_h_s.prodName
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

SQL Commands Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893530... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
FROM p_r_d_c_t JOIN p_r_c_h_s ON  
p_r_d_c_t.name = p_r_c_h_s.prodName
```

```
SELECT p_r_d_c_t.name, p_r_c_h_s.store  
FROM p_r_d_c_t, p_r_c_h_s  
WHERE p_r_d_c_t.name = p_r_c_h_s.prodName
```

```
SELECT p_r_d_c_t.name, p_r_c_h_s.store  
FROM p_r_d_c_t LEFT OUTER JOIN p_r_c_h_s ON  
p_r_d_c_t.name = p_r_c_h_s.prodName
```

Results Explain Describe Saved SQL History

NAME	STORE
Camera	wiz
Gizmo	wiz
Camera	Ritz
OneClick	-

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

Application Express 2.1.0.00.39

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SELECT *from p_r_d_c_t,p_rch_s

```

    SELECT * from p_r_d_c_t,p_rch_s

```

NAME	CATEGORY	PRODNAME	MONTH	STORE
Gizmo	gadget	Gizmo	september	wiz
Camera	Photo	Gizmo	september	wiz
OneClick	Photo	Gizmo	september	wiz
Gizmo	gadget	Camera	december	Ritz
Camera	Photo	Camera	december	Ritz
OneClick	Photo	Camera	december	Ritz
Gizmo	gadget	Camera	august	wiz
Camera	Photo	Camera	august	wiz
OneClick	Photo	Camera	august	wiz

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

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Application Express 2.1.0.00.39

GROUP BY QUERY

```

SELECT p_r_d_c_t.name, count(*)
FROM p_r_d_c_t, p_rch_s
WHERE p_r_d_c_t.name = p_rch_s.prodName
and p_rch_s.month = 'december'
GROUP BY p_r_d_c_t.name

```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

SQL Commands Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893530...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
INSERT INTO p_rch_s VALUES('Gizmo','september','wiz')
INSERT INTO p_rch_s VALUES('Camera','december','Ritz')
INSERT INTO p_rch_s VALUES('Camera','august','wiz')

SELECT p_r_d_c_t.name, count(*)
FROM p_r_d_c_t, p_rch_s
WHERE p_r_d_c_t.name = p_rch_s.prodName
    and p_rch_s.month = 'december'
GROUP BY p_r_d_c_t.name
```

Results Explain Describe Saved SQL History

NAME	COUNT(*)
Camera	1

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

Application Express 2.1.0.0.39
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.



```
SELECT p_r_d_c_t.name, count(*)
FROM p_r_d_c_t, p_rch_s
WHERE p_r_d_c_t.name = p_rch_s.prodName
    and p_rch_s.month = 'september'
GROUP BY p_r_d_c_t.name
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

SQL Commands Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:30893530... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
INSERT INTO p_rch_s VALUES('Camera','august','wiz')

SELECT p_r_d_c_t.name, count(*)
FROM p_r_d_c_t, p_rch_s
WHERE p_r_d_c_t.name = p_rch_s.prodName
    and p_rch_s.month = 'september'
GROUP BY p_r_d_c_t.name
```

Results Explain Describe Saved SQL History

NAME	COUNT(*)
Gizmo	1

1 rows returned in 0.00 seconds CSV Export

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```
SELECT p_r_d_c_t.name, count(*)
FROM p_r_d_c_t LEFT OUTER JOIN p_rch_s ON
p_r_d_c_t.name = p_rch_s.prodName and p_rch_s.month = 'september'
GROUP BY p_r_d_c_t.name
```

The screenshot shows the Oracle Database Express Edition SQL Commands interface running in a Chrome browser. The URL is 202.12.103.189:8080/apex/f?p=4500:1003:30893530... . The interface includes a toolbar with Home, Logout, and Help buttons.

```

FROM p_r_d_c_t, p_rch_s
WHERE p_r_d_c_t.name = p_rch_s.prodName
and p_rch_s.month = 'september'
GROUP BY p_r_d_c_t.name

SELECT p_r_d_c_t.name, count(*)
FROM p_r_d_c_t LEFT OUTER JOIN p_rch_s ON
p_r_d_c_t.name = p_rch_s.prodName and p_rch_s.month = 'september'
GROUP BY p_r_d_c_t.name

```

Results

NAME	COUNT(*)
Camera	1
OneClick	1
Gizmo	1

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

Application Express 2.1.0.00.39
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HAVING QUERY

```

SELECT DISTINCT Athr.name
FROM Athr,Wrte
WHERE Athr.login=Wrte.login
GROUP BY Athr.name
HAVING count(wrte.url) = 1

```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

SQL Commands 202.12.103.135/vlab/ x +

Not Secure | 202.12.103.139:8080/apex/f?p=4500:1003:37487783...

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
count ( SELECT Wrtc.url
      FROM Athr, Wrtc
     WHERE Athr.login=Wrtc.login
   GROUP BY url )
```

desc Athr
desc Wrtc

```
SELECT DISTINCT Athr.name
  FROM Athr,Wrtc
 WHERE Athr.login=Wrtc.login
 GROUP BY Athr.name
 HAVING count(wrtc.url) = 1
```

Results Explain Describe Saved SQL History

NAME
Rajat
Shashank

2 rows returned in 0.00 seconds CSV Export

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



SELECT *from P_C_H_S

The screenshot shows a Chrome browser window with the following details:

- Address Bar:** SQL Commands | Not Secure | 202.12.103.135/vlab/
- Title Bar:** ORACLE Database Express Edition
- User Information:** User: AIB
- Toolbar Buttons:** Home, Logout, Help
- SQL Editor:**
 - Autocommit: checked
 - Display: 10
 - Buttons: Save, Run
 - SQL Query:

```
SELECT * from P_C_H_S
DELETE FROM P_C_H_S
WHERE price = '200' AND
p_date = '27-12-2002'
```
- Results Panel:**
 - Results tab selected.
 - Table Data:

PRODUCT	P_DATE	PRICE	QUANTITY
shirt	28-08-2002	800	2
bag	19-10-2002	2000	4
t-shirt	08-08-2002	1000	1

 - Text: 3 rows returned in 0.00 seconds
 - CSV Export button
- Bottom Navigation:** Language: en-us, Application Express 2.1.0.00.39, Copyright © 1999, 2006, Oracle. All rights reserved.
- Mac OS Dock:** Icons for Finder, Mail, Safari, App Store, iPhoto, iMovie, iWork, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft OneNote, Microsoft Visio, Microsoft Project, Microsoft Publisher, Microsoft Access, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Visio, Microsoft Project, Microsoft Publisher, Microsoft Access.

DELETION:-

```
DELETE FROM P_C_H_S
WHERE price = '2000' AND
p_date = '19-10-2002'
SELECT * from P_C_H_S
```

User: AIB

Home > SQL > SQL Commands

Autocommit

```
SELECT *from P_C_H_S
DELETE FROM P_C_H_S
WHERE price = '2000' AND
p_date = '19-10-2002'
```

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

PRODUCT	P_DATE	PRICE	QUANTITY
shirt	28-08-2002	800	2
t-shirt	08-08-2002	1000	1

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

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

Recent Applications: Mail, File Manager, Google Chrome, WhatsApp, Visual Studio Code, OneDrive, Microsoft Teams, Notepad, Paint

UPDATION:-

```
UPDATE P_C_H_S
SET Price=Price/2
WHERE P_C_H_S.Product IN
(SELECT Product
FROM P_C_H_S
WHERE P_Date = '28-08-2002');
SELECT *from P_C_H_S
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

SQL Commands 202.12.103.135/vlab/ Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:37487783... Home Logout Help

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit Display 10

```
UPDATE P_C_H_S
SET Price=Price/2
WHERE P_C_H_S.Product IN
    (SELECT Product
     FROM P_C_H_S
     WHERE P_Date = '28-08-2002');

SELECT *from P_C_H_S
```

Results Explain Describe Saved SQL History

PRODUCT	P_DATE	PRICE	QUANTITY
shirt	28-08-2002	400	2
t-shirt	08-08-2002	1000	1

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

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CHAPTER 4

AMIZONE QUERY

1) QUERY

```
CREATE TABLE BOOK_10(ISBN VARCHAR(20),TITLE VARCHAR(20), PUB_YEAR NUMBER(20),
UNIT_PRICE NUMBER(20), AUTHOR_NAME VARCHAR(20), PUB_NAME VARCHAR(20),PRIMARY
KEY(AUTHOR_NAME),FOREIGN KEY(PUB_NAME) REFERENCES PUBLISHER_10(PUB_NAME))
```

```
DESC BOOK_10
```

```
INSERT INTO BOOK_10 VALUES((1001),'Oracle',(2004),(399),'Arora','phi')
```

```
INSERT INTO BOOK_10 VALUES((1002),'Dbms',(2004),(400),'Basu','Technical')
```

```
INSERT INTO BOOK_10 VALUES((2001),'Dos',(2003),(250),'Sinha','Nirali')
```

```
INSERT INTO BOOK_10 VALUES((2003),'Unix',(2000),(300),'Kapoor','Scitech')
```

```
SELECT * FROM BOOK_10
```

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands tab is active. The SQL code entered is:

```
CREATE TABLE BOOK_10(ISBN VARCHAR(20),TITLE VARCHAR(20), PUB_YEAR NUMBER(20),
UNIT_PRICE NUMBER(20), AUTHOR_NAME VARCHAR(20), PUB_NAME VARCHAR(20),PRIMARY
KEY(AUTHOR_NAME),FOREIGN KEY(PUB_NAME) REFERENCES PUBLISHER_10(PUB_NAME))

DESC BOOK_10

INSERT INTO BOOK_10 VALUES((1001),'Oracle',(2004),(399),'Arora','phi')
INSERT INTO BOOK_10 VALUES((1002),'Dbms',(2004),(400),'Basu','Technical')
INSERT INTO BOOK_10 VALUES((2001),'Dos',(2003),(250),'Sinha','Nirali')
INSERT INTO BOOK_10 VALUES((2003),'Unix',(2000),(300),'Kapoor','Scitech')

SELECT * FROM BOOK_10
```

The results section displays the following table:

ISBN	TITLE	PUB_YEAR	UNIT_PRICE	AUTHOR_NAME	PUB_NAME
1001	Oracle	2004	399	Arora	phi
1002	Dbms	2004	400	Basu	Technical
2001	Dos	2003	250	Sinha	Nirali
2003	Unix	2000	300	Kapoor	Scitech

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

```
CREATE TABLE AUTHOR_10(AUTHOR_NAME VARCHAR(20),COUNTRY VARCHAR(20), FOREIGN  
KEY(AUTHOR_NAME) REFERENCES bOOK_10(AUTHOR_NAME))
```

```
DESC AUTHOR_10
```

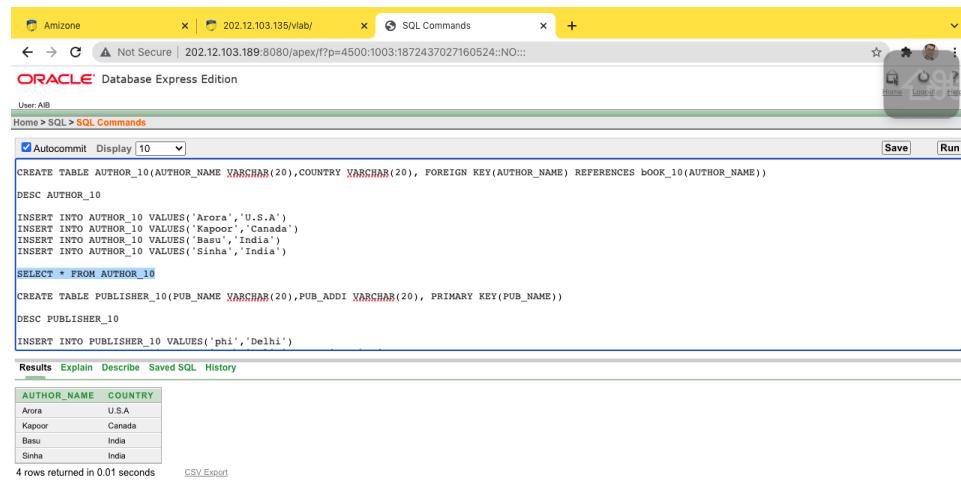
```
INSERT INTO AUTHOR_10 VALUES('Arora','U.S.A')
```

```
INSERT INTO AUTHOR_10 VALUES('Kapoor','Canada')
```

```
INSERT INTO AUTHOR_10 VALUES('Basu','India')
```

```
INSERT INTO AUTHOR_10 VALUES('Sinha','India')
```

```
SELECT * FROM AUTHOR_10
```



```
Amizone 202.12.103.135/viab/ SQL Commands +  
Not Secure | 202.12.103.189:8080/apex/f?p=4500:1003:1872437027160524::NO:::  
ORACLE Database Express Edition  
User: A8  
Home > SQL > SQL Commands  
 Autocommit  Save Run  
CREATE TABLE AUTHOR_10(AUTHOR_NAME VARCHAR(20),COUNTRY VARCHAR(20), FOREIGN KEY(AUTHOR_NAME) REFERENCES bOOK_10(AUTHOR_NAME))  
DESC AUTHOR_10  
INSERT INTO AUTHOR_10 VALUES('Arora','U.S.A')  
INSERT INTO AUTHOR_10 VALUES('Kapoor','Canada')  
INSERT INTO AUTHOR_10 VALUES('Basu','India')  
INSERT INTO AUTHOR_10 VALUES('Sinha','India')  
SELECT * FROM AUTHOR_10  
CREATE TABLE PUBLISHER_10(PUB_NAME VARCHAR(20),PUB_ADDI VARCHAR(20), PRIMARY KEY(PUB_NAME))  
DESC PUBLISHER_10  
INSERT INTO PUBLISHER_10 VALUES('phi','Delhi')  
  
Results Explain Describe Saved SQL History  


| AUTHOR_NAME | COUNTRY |
|-------------|---------|
| Arora       | U.S.A   |
| Kapoor      | Canada  |
| Basu        | India   |
| Sinha       | India   |



4 rows returned in 0.01 seconds CSV Export


```

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

```
CREATE TABLE PUBLISHER_10(PUB_NAME VARCHAR(20),PUB_ADDI VARCHAR(20), PRIMARY KEY(PUB_NAME))
```

```
DESC PUBLISHER_10
```

```
INSERT INTO PUBLISHER_10 VALUES('phi','Delhi')
```

```
INSERT INTO PUBLISHER_10 VALUES('Technical','Pune mainmarket')
```

```
INSERT INTO PUBLISHER_10 VALUES('Nirali','Mumbai')
```

```
INSERT INTO PUBLISHER_10 VALUES('Scitech','Chennai')
```

```
SELECT * FROM PUBLISHER_10
```

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands tab is active. The SQL editor contains the following code:

```
CREATE TABLE PUBLISHER_10(PUB_NAME VARCHAR(20),PUB_ADDI VARCHAR(20), PRIMARY KEY(PUB_NAME))
DESC PUBLISHER_10
INSERT INTO PUBLISHER_10 VALUES('phi','Delhi')
INSERT INTO PUBLISHER_10 VALUES('Technical','Pune mainmarket')
INSERT INTO PUBLISHER_10 VALUES('Nirali','Mumbai')
INSERT INTO PUBLISHER_10 VALUES('Scitech','Chennai')

SELECT * FROM PUBLISHER_10
```

Below the editor, the results are displayed in a table:

PUB_NAME	PUB_ADDI
phi	Delhi
Technical	Pune mainmarket
Nirali	Mumbai
Scitech	Chennai

4 rows returned in 0.01 seconds

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

2) QUERY

```
SELECT x.PUB_NAME  
FROM BOOK_10 x,PUBLISHER_10 y  
where x.PUB_NAME=y.PUB_NAME
```

The screenshot shows the Oracle Database Express Edition interface. The title bar includes tabs for 'Amzone' (active), '202.12.103.135/lab/' (closed), 'SQL Commands' (closed), and 'Document58.docx' (active). The main window displays the following SQL code:

```
INSERT INTO PUBLISHER_10 VALUES('phi','Delhi')  
INSERT INTO PUBLISHER_10 VALUES('Technical','Pune mainmarketINSERT INTO PUBLISHER_10 VALUES('Nirali','Mumbai')  
INSERT INTO PUBLISHER_10 VALUES('Scitech','Chennai')  
  
SELECT * FROM PUBLISHER_10  
  
SELECT x.PUB_NAME  
FROM BOOK_10 x,PUBLISHER_10 y  
where x.PUB_NAME=y.PUB_NAME
```

Below the code, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected, showing a table with one column 'PUB_NAME' containing the values: phi, Technical, Nirali, Scitech. A message at the bottom indicates '4 rows returned in 0.00 seconds'.

3) QUERY

```
SELECT DISTINCT x.PUB_NAME  
FROM BOOK_10 x,PUBLISHER_10 y  
where x.PUB_NAME=y.PUB_NAME
```

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

```

SELECT x.PUB_NAME
FROM BOOK_10 x,PUBLISHER_10 y
where x.PUB_NAME=y.PUB_NAME

SELECT DISTINCT x.PUB_NAME
FROM BOOK_10 x,PUBLISHER_10 y
where x.PUB_NAME=y.PUB_NAME

```

The results pane shows a single row:

PUB_NAME
Technical

4 rows returned in 0.00 seconds

CSV Export

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

4) QUERY

```

SELECT AUTHOR_NAME
FROM AUTHOR_10
where AUTHOR_NAME like '%Ba%'

```

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

```

SELECT AUTHOR_NAME
FROM AUTHOR_10
where AUTHOR_NAME like '%Ba%'

```

The results pane shows a single row:

AUTHOR_NAME
Basu

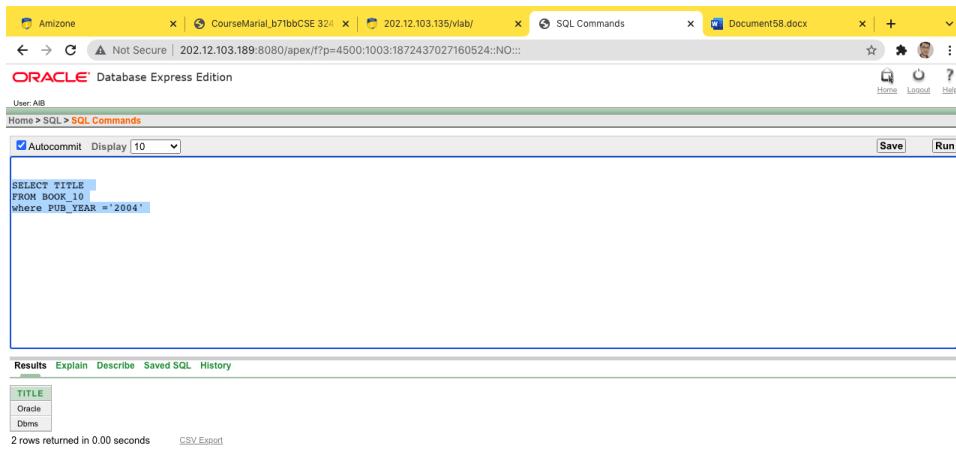
1 rows returned in 0.01 seconds

CSV Export

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

5) QUERY

```
SELECT TITLE  
FROM BOOK_10  
where PUB_YEAR ='2004'
```



The screenshot shows the Oracle Database Express Edition interface. The title bar includes tabs for Amizone, CourseMaria_b7labCSE 324, 202.12.103.135/vlab, SQL Commands, and Document58.docx. The main window displays the SQL Commands page with the following content:

```
SELECT TITLE  
FROM BOOK_10  
where PUB_YEAR ='2004.'
```

Below the query, the results are shown in a table:

TITLE
Oracle
Doms

Text at the bottom indicates "2 rows returned in 0.00 seconds" and provides a "CSV Export" link.

6) QUERY

```
SELECT TITLE  
FROM BOOK_10  
where unit_price BETWEEN 300 AND 400;
```

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

```
SELECT TITLE  
FROM BOOK_10  
where unit_price BETWEEN 300 AND 400
```

The results show three rows returned in 0.00 seconds:

TITLE
Orade
Doms
Unix

CSV Export

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

7) QUERY

```
SELECT TITLE  
FROM BOOK_10  
where unit_price NOT BETWEEN 300 AND 400;
```

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

```
SELECT TITLE  
FROM BOOK_10  
where unit_price NOT BETWEEN 300 AND 400
```

The results show one row returned in 0.00 seconds:

TITLE
Dos

CSV Export

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

```
SELECT TITLE
```

FROM BOOK_10

WHERE UNIT_PRICE IN(300,400)

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

```
SELECT TITLE
FROM BOOK_10
WHERE UNIT_PRICE IN(300,400)
```

The results pane shows two rows of data:

TITLE
Doms
Unix

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

SELECT TITLE

FROM BOOK_10

WHERE UNIT_PRICE NOT IN(300,400)

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

```
SELECT TITLE
FROM BOOK_10
WHERE UNIT_PRICE NOT IN(300,400)
```

The results pane shows one row of data:

TITLE
Oracle
Dos

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

8) QUERY

```

SELECT X.TITLE, Y.AUTHOR_NAME, Y.COUNTRY
FROM BOOK_10 X, AUTHOR_10 Y
where X.PUB_YEAR ='2004'

```

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands tab is active, displaying the following query:

```

SELECT X.TITLE, Y.AUTHOR_NAME, Y.COUNTRY
FROM BOOK_10 X, AUTHOR_10 Y
where X.PUB_YEAR ='2004'

```

The results section shows the following data:

TITLE	AUTHOR_NAME	COUNTRY
Orade	Arora	U.S.A
Orade	Kapoor	Canada
Orade	Basu	India
Orade	Sinha	India
Doms	Arora	U.S.A
Doms	Kapoor	Canada
Doms	Basu	India
Doms	Sinha	India

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

Application Express 2.1.0.00.39
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9) QUERY

```

SELECT TITLE ,UNIT_PRICE*10
AS "UNIT_PRICE*10"
FROM BOOK_10

```

User: AlB

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT TITLE ,UNIT_PRICE*10
AS "UNIT_PRICE*10"
FROM BOOK_10
```

Results Explain Describe Saved SQL History

TITLE	UNIT_PRICE*10
Orade	3990
Dlms	4000
Dos	2500
Unix	3000

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

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

10) QUERY

INSERT INTO BOOK_10 VALUES((2006),'Lenux',(2008),(450),'Gupta','Scitech')

SELECT * FROM BOOK_10

User: AlB

Home > SQL > SQL Commands

Autocommit Display 10

```
INSERT INTO BOOK_10 VALUES((2006), 'Lenux', (2008), (450), 'Gupta', 'Scitech')

SELECT * FROM BOOK_10
INSERT INTO AUTHOR_10 VALUES('Gupta', 'Canada')
SELECT * FROM AUTHOR_10
INSERT INTO PUBLISHER_10 VALUES('RSPP', 'Gwalior')
SELECT * FROM PUBLISHER_10
```

Results Explain Describe Saved SQL History

ISBN	TITLE	PUB_YEAR	UNIT_PRICE	AUTHOR_NAME	PUB_NAME
1001	Orade	2004	399	Arora	phi
1002	Dlms	2004	400	Basu	Technical
2001	Dos	2003	250	Sirin	Nirali
2003	Unix	2000	300	Kapoor	Scitech
2006	Lenux	2008	450	Gupta	Scitech

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

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

INSERT INTO AUTHOR_10 VALUES('Gupta','Canada')

SELECT * FROM AUTHOR_10

```

Amizone 202.12.103.135/vlab/ SQL Commands CourseMarial_b7bbcCSE 324 New Tab
ORACLE Database Express Edition
User: AlB
Home > SQL > SQL Commands
Autocommit Display [10] Save Run
INSERT INTO BOOK_10 VALUES((2006), 'Lenox', (2008), (450), 'Gupta', 'Scitech')

SELECT * FROM BOOK_10
INSERT INTO AUTHOR_10 VALUES('Gupta', 'Canada')
SELECT * FROM AUTHOR_10
INSERT INTO PUBLISHER_10 VALUES('RSPP', 'Gwalior')
SELECT * FROM PUBLISHER_10

Results Explain Describe Saved SQL History
AUTHOR_NAME COUNTRY
Arun U.S.A.
Kapoor Canada
Basu India
Sinha India
Gupta Canada
5 rows returned in 0.00 seconds CSV Export

```

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

INSERT INTO PUBLISHER_10 VALUES('RSPP','Gwalior')

SELECT * FROM PUBLISHER_10

```

Amizone 202.12.103.135/vlab/ SQL Commands CourseMarial_b7bbcCSE 324 New Tab
ORACLE Database Express Edition
User: AlB
Home > SQL > SQL Commands
Autocommit Display [10] Save Run
INSERT INTO BOOK_10 VALUES((2006), 'Lenox', (2008), (450), 'Gupta', 'Scitech')

SELECT * FROM BOOK_10
INSERT INTO AUTHOR_10 VALUES('Gupta', 'Canada')
SELECT * FROM AUTHOR_10
INSERT INTO PUBLISHER_10 VALUES('RSPP', 'Gwalior')
SELECT * FROM PUBLISHER_10

Results Explain Describe Saved SQL History
PUB_NAME PUB_ADDI
phi Delhi
Technical Pune mainmarket
Nirali Mumbai
Scitech Chennai
RSPP Gwalior
5 rows returned in 0.00 seconds CSV Export

```

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

11) QUERY

In the concept of view we can use the statement that is stored in the database with an associated name. A view is actually a composition of a table in the form of a predefined SQL query.

It contain all rows of a table or it can select an rows from a table. It also can be created from one or many tables which depends on the query that create a view.

Concept and query to design a view:

Createview:

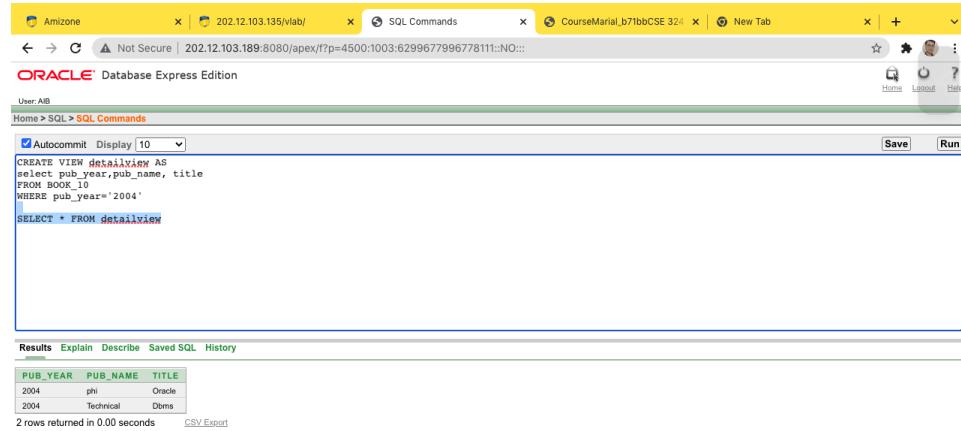
Deleteview:

Dropview:

1) CREATE VIEW detailview AS

```
select pub_year,pub_name, title  
FROM BOOK_10  
WHERE pub_year='2004'
```

SELECT * FROM detailview



The screenshot shows the Oracle Database Express Edition interface. In the SQL Commands tab, a new view is being defined:

```
CREATE OR REPLACE VIEW detailview AS  
select pub_year,pub_name, title  
FROM BOOK_10  
WHERE pub_year='2004'
```

Below the code, the query `SELECT * FROM detailview` is executed. The results are displayed in a table:

PUB_YEAR	PUB_NAME	TITLE
2004	phi	Oracle
2004	Technical	Dbms

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



12) QUERY

```
CREATE TABLE BOOK_11(ISBN VARCHAR(20),TITLE VARCHAR(20),PUB_YEAR NUMBER(20),UNIT_PRICE  
NUMBER(20),AUTHOR_NAME VARCHAR(20),PUB_NAME VARCHAR(20),PRIMARY KEY(ISBN))
```

DESC BOOK_11

The screenshot shows the Oracle Database Express Edition interface. In the SQL Commands tab, the following SQL code is entered:

```
CREATE TABLE BOOK_11(ISBN VARCHAR(20),TITLE VARCHAR(20),PUB_YEAR NUMBER(20),UNIT_PRICE NUMBER(20),AUTHOR_NAME VARCHAR(20),PUB_NAME VARCHAR(20),PRIMARY KEY(ISBN))  
DESC BOOK_11
```

Below the code, the results of the DESCRIBE command are displayed in a table:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BOOK_11	ISBN	VARCHAR2	20	-	-	1	-	-	-
	TITLE	VARCHAR2	20	-	-	-	✓	-	-
	PUB_YEAR	NUMBER	-	20	0	-	✓	-	-
	UNIT_PRICE	NUMBER	-	20	0	-	✓	-	-
	AUTHOR_NAME	VARCHAR2	20	-	-	-	✓	-	-
	PUB_NAME	VARCHAR2	20	-	-	-	✓	-	-

At the bottom of the interface, there is a note: "Language: en-us".

13) QUERY

```
SELECT TITLE ,UNIT_PRICE,PUB_YEAR  
FROM BOOK_10  
ORDER BY PUB_YEAR desc;
```

The screenshot shows the Oracle Database Express Edition SQL Commands interface. A query is being run:

```
SELECT TITLE ,UNIT_PRICE,PUB_YEAR
FROM BOOK_10
ORDER BY PUB_YEAR desc;
```

The results are displayed in a table:

TITLE	UNIT_PRICE	PUB_YEAR
Oracle	399	2004
Dlms	400	2004
Dos	250	2003
Unix	300	2000

4 rows returned in 0.00 seconds

14) QUERY

DROP COMMAND:

DROP is used to delete a whole database permanently because in this we have to be very careful while using this command because once a table is deleted then all the information available in that table will also be lost forever.

```
CREATE TABLE FAMILY_2(NAME VARCHAR(20),FNAME VARCHAR(20),M_NAME VARCHAR(20),
T_MEMBER NUMBER(20))
```

```
INSERT INTO FAMILY_2 VALUES('RAJAT','BBGUPTA','RGUPTA',(5))
```

```
INSERT INTO FAMILY_2 VALUES('CHARU','BTOMAR','ATOMAR',(3))
```

```
SELECT * FROM FAMILY_2
```

```

CREATE TABLE FAMILY_2(NAME VARCHAR(20),FNAME VARCHAR(20),M_NAME VARCHAR(20), T_MEMBER NUMBER(20))
INSERT INTO FAMILY_2 VALUES('RAJAT','BBGUPTA','RGUPTA',(5))
INSERT INTO FAMILY_2 VALUES('CHARU','BTOMAR','ATOMAR',(3))

SELECT * FROM FAMILY_2
DROP TABLE FAMILY_2

```

Results Explain Describe Saved SQL History

NAME	FNAME	M_NAME	T_MEMBER
RAJAT	BBGUPTA	RGUPTA	5
CHARU	BTOMAR	ATOMAR	3

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



DROP TABLE FAMILY_2

```

CREATE TABLE FAMILY_2(NAME VARCHAR(20),FNAME VARCHAR(20),M_NAME VARCHAR(20), T_MEMBER NUMBER(20))
INSERT INTO FAMILY_2 VALUES('RAJAT','BBGUPTA','RGUPTA',(5))
INSERT INTO FAMILY_2 VALUES('CHARU','BTOMAR','ATOMAR',(3))

SELECT * FROM FAMILY_2
DROP TABLE FAMILY_2

```

Results Explain Describe Saved SQL History

Table dropped.

0.02 seconds



DELETE COMMAND:

DELETE Query is used to delete the existing records from a table.

We can use the WHERE clause with a DELETE query to delete the selected rows, otherwise all the records would be deleted.

```
CREATE TABLE FAMILY_2(NAME VARCHAR(20),FNAME VARCHAR(20),M_NAME VARCHAR(20),
T_MEMBER NUMBER(20))
```

```
INSERT INTO FAMILY_2 VALUES('RAJAT','BBGUPTA','RGUPTA',(5))
```

```
INSERT INTO FAMILY_2 VALUES('CHARU','BTOMAR','ATOMAR',(3))
```

```
DELETE FROM FAMILY_2
```

```
WHERE NAME='CHARU'
```

```
SELECT * FROM FAMILY_2
```

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands tab is active, displaying the following SQL code:

```
CREATE TABLE FAMILY_2(NAME VARCHAR(20),FNAME VARCHAR(20),M_NAME VARCHAR(20),
T_MEMBER NUMBER(20))
INSERT INTO FAMILY_2 VALUES('RAJAT','BBGUPTA','RGUPTA',(5))
INSERT INTO FAMILY_2 VALUES('CHARU','BTOMAR','ATOMAR',(3))
DELETE FROM FAMILY_2
WHERE NAME='CHARU'
SELECT * FROM FAMILY_2
```

Below the code, the results are shown in a table:

NAME	FNAME	M_NAME	T_MEMBER
RAJAT	BBGUPTA	RGUPTA	5

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



15) QUERY

a) TRIGGERS:

It is a procedure that starts automatically .if specified changes occur to the dbms.

It has 3 parts:

- Trigger event
- Trigger condition
- Trigger action

When an event occur, database trigger is fired, and an predefind sql block will perform necessary action.

SYNTAX:

Create[or replace] trigger trigger_name

{before/after}

{insert/update/delete}

trigger event ON table_name

refrencing old as or new as

[for each row]

[when condition]

Declare

 Declaration statements;

Begin

 Executable statements;

Exception

 Exception-handling statements;

END;

CHAPTER 5

PROJECT DATABASE

```
CREATE TABLE STUDENT_AD(ID NUMBER(20),NAME VARCHAR(20),ADDRESS  
VARCHAR(30),CLASS NUMBER(20),CATEGORY VARCHAR(10),GENDER  
VARCHAR(10),MOBILE_NO NUMBER(20),ACADEMIC_YEAR VARCHAR(10),BRANCH  
VARCHAR(10),PRIMARY KEY(ID));
```

```
INSERT INTO STUDENT_AD  
VALUES((60205220088),'RAJAT','GWALIOR',(12),'GENERAL','MALE',(7024528805),'2020-  
21','PCM')
```

```
INSERT INTO STUDENT_AD  
VALUES((60205220066),'CHARANTEJA','HYDERABAD',(12),'GENERAL','MALE',(901453  
6833),'2020-24','PCB')
```

```
INSERT INTO STUDENT_AD  
VALUES((60205220044),'RANJITH','TAMIL',(12),'GENERAL','MALE',(7337348936),'2020-  
22','COMMERCE')
```

```
INSERT INTO STUDENT_AD  
VALUES((60205220022),'GAURAV','DELHI',(12),'GENERAL','MALE',(9109069816),'2020-  
21','ARTS')
```

```
SELECT * FROM STUDENT_AD
```

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

```
SELECT * FROM STUDENT_AD
```

The results are displayed in a table:

ID	NAME	ADDRESS	CLASS	CATEGORY	GENDER	MOBILE_NO	ACADEMIC_YEAR	BRANCH
60205220066	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB
60205220044	RANJITH	TAMIL	12	GENERAL	MALE	7337348936	2020-22	COMMERCE
60205220022	GAURAV	DELHI	12	GENERAL	MALE	9109069816	2020-21	ARTS
60205220088	RAJAT	GWALIOR	12	GENERAL	MALE	7024528805	2020-21	PCM

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

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

CREATE TABLE ENROLLMENT(ID NUMBER(20), COURSE_ID NUMBER(20), PRIMARY KEY(COURSE_ID), FOREIGN KEY(ID) REFERENCES STUDENT_AD(ID))

INSERT INTO ENROLLMENT VALUES((60205220088),(2712))

INSERT INTO ENROLLMENT VALUES((60205220066),(2808))

INSERT INTO ENROLLMENT VALUES((60205220044),(1910))

INSERT INTO ENROLLMENT VALUES((60205220022),(0708))

SELECT * FROM ENROLLMENT;

The screenshot shows a Chrome browser window with three tabs: "Microsoft Office Home", "Amizone", and "SQL Commands". The "SQL Commands" tab is active, displaying the Oracle Database Express Edition interface. The query editor contains the following SQL code:

```

SELECT * FROM STUDENT_ADM;
SELECT * FROM ENROLLMENT;
SELECT * FROM FACULTY_DETAIL;
SELECT * FROM COURSES_LIST;
SELECT * FROM C_TITLE;

```

The results section shows a table with two columns: ID and COURSE_ID. The data is:

ID	COURSE_ID
6020522008	2712
6020522006	2808
6020522004	1910
6020522002	708

Below the table, it says "4 rows returned in 0.00 seconds" and has a "CSV Export" link. The bottom of the interface shows the Application Express 2.1.0.0.39 copyright notice and various application icons.

```

CREATE TABLE FACULTY_DETAIL(FACULTY_ID NUMBER(20),NAME
VARCHAR(20),DEPARTMENT VARCHAR(20),CAMPUS_ADD VARCHAR(20),PRIMARY
KEY (FACULTY_ID))

```

```

INSERT INTO FACULTY_DETAIL VALUES((200227),'DR_DIVYA','DBMS','ASET')
INSERT INTO FACULTY_DETAIL VALUES((200228),'DR_AMRITA','CSE','A_S_E_T')
INSERT INTO FACULTY_DETAIL VALUES((200219),'DR_MANISHA','ECE','AIBS')
INSERT INTO FACULTY_DETAIL VALUES((200207),'DR_MADHVI','CSA','CBCS')

```

```
SELECT * FROM FACULTY_DETAIL
```

```

SELECT * FROM STUDENT;
SELECT * FROM ENROLLMENT;
SELECT * FROM FACULTY_DETAIL;
SELECT * FROM COURSESS_LIST;
SELECT * FROM C_TITLE;

```

FACULTY_ID	NAME	DEPARTMENT	CAMPUS_ADD
200219	DR_MANISHA	ECE	AIBS
200227	DR_DIVYA	DBMS	ASET
200228	DR_AMRITA	CSE	A_S_E_T
200207	DR_MADHVI	CSA	CBCS

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

```

CREATE TABLE COURSESS_LIST(COURSE_ID NUMBER(20),COURSE_NUM
NUMBER(20),CLASS_TIME VARCHAR(20),CLASS_LOCATION
VARCHAR(20),FACULTY_ID NUMBER(20), PRIMARY KEY(COURSE_NUM),FOREIGN
KEY(COURSE_ID) REFERENCES ENROLLMENT(COURSE_ID),FOREIGN
KEY(FACULTY_ID) REFERENCES FACULTY_DETAIL(FACULTY_ID))

```

```
INSERT INTO COURSESS_LIST VALUES((2712),(304),'MWF-AM','DDNAGAR',(200227))
```

```
INSERT INTO COURSESS_LIST VALUES((2808),(324),'TTS-
PM','GOLEKAMANDIR',(200228))
```

```
INSERT INTO COURSESS_LIST VALUES((1910),(306),'MTW-AM','COMPLEX',(200219))
```

```
INSERT INTO COURSESS_LIST VALUES((0708),(326),'TFS-PM','MORAR',(200207))
```

```
SELECT * FROM COURSESS_LIST
```



```

CREATE TABLE C_TITLE(COURSE_NUM NUMBER(20),COURSE_NAME
VARCHAR(20) PRIMARY KEY, FOREIGN KEY (COURSE_NUM) REFERENCES
COURSESS_LIST(COURSE_NUM))

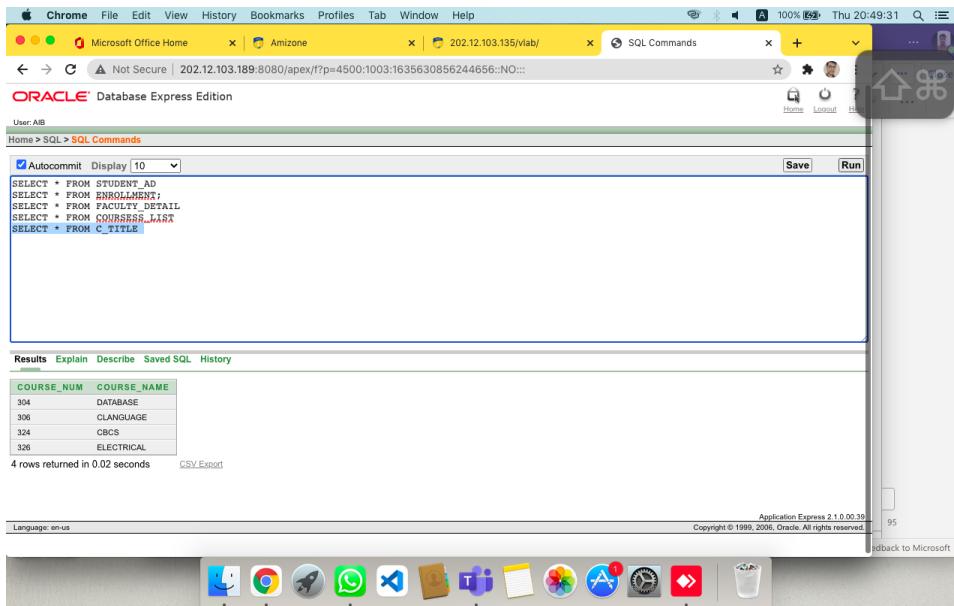
```

```

INSERT INTO C_TITLE VALUES((304),'DATABASE')
INSERT INTO C_TITLE VALUES((306),'CLANGUAGE')
INSERT INTO C_TITLE VALUES((326),'ELECTRICAL')
INSERT INTO C_TITLE VALUES((324),'CBCS')

```

```
SELECT * FROM C_TITLE
```



The screenshot shows a Mac OS X desktop with several open windows. In the foreground, the Oracle Database Express Edition application is open. The SQL Commands window displays the following SQL code:

```

SELECT * FROM STUDENT_AD
SELECT * FROM ENROLLMENT
SELECT * FROM FACULTY_DETAIL
SELECT * FROM COURSESS_LIST
SELECT * FROM C_TITLE

```

The Results tab shows the output of the query:

COURSE_NUM	COURSE_NAME
304	DATABASE
306	CLANGUAGE
324	CBCS
326	ELECTRICAL

Below the table, it says "4 rows returned in 0.02 seconds". The Application Express status bar at the bottom right indicates "Application Express 21.0.0.30" and "Copyright © 1999, 2006, Oracle. All rights reserved".

```

SELECT * FROM
STUDENT_AD,ENROLLMENT,FACULTY_DETAIL,COURSESS_LIST,C_TITLE;

```

Microsoft Office Home | Amizone | 202.12.103.135/vlab/ | SQL Commands

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit

```
SELECT * FROM FACULTY_DETAIL
SELECT * FROM COURSES_LIST
SELECT * FROM C_TITLE

SELECT * FROM STUDENT_AD,ENROLLMENT,FACULTY_DETAIL,COURSES_LIST,C_TITLE;

SELECT NAME
FROM STUDENT_AD
WHERE ID=60205220088
```

Results Explain Describe Saved SQL History

ID	NAME	ADDRESS	CLASS	CATEGORY	GENDER	MOBILE_NO	ACADEMIC_YEAR	BRANCH	ID	COURSE_ID	FACULTY_ID	NAME	DEPARTMENT	CAMPUS
6020522006	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220088	2712	200219	DR.MANISHA	ECE	AIBS
6020522008	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220088	2712	200219	DR.MANISHA	ECE	AIBS
6020522009	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220088	2712	200219	DR.MANISHA	ECE	AIBS
6020522010	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220088	2712	200219	DR.MANISHA	ECE	AIBS
6020522011	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220066	2808	200219	DR.MANISHA	ECE	AIBS
6020522012	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220066	2808	200219	DR.MANISHA	ECE	AIBS
6020522013	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220066	2808	200219	DR.MANISHA	ECE	AIBS
6020522014	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220066	2808	200219	DR.MANISHA	ECE	AIBS
6020522015	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220044	1910	200219	DR.MANISHA	ECE	AIBS
6020522016	CHARANTEJA	HYDERABAD	12	GENERAL	MALE	9014536833	2020-24	PCB	60205220044	1910	200219	DR.MANISHA	ECE	AIBS

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

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

Application Express 2.1.0.0.39

SELECT NAME
 FROM STUDENT_AD
 WHERE ID=60205220088

Microsoft Office Home | Amizone | 202.12.103.135/vlab/ | SQL Commands

ORACLE Database Express Edition

User: AIB

Home > SQL > SQL Commands

Autocommit

```
SELECT NAME
FROM STUDENT_AD
WHERE ID=60205220088
```

Results Explain Describe Saved SQL History

NAME
RAJAT

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

SELECT *
 FROM STUDENT_AD

Language: en-us Application Express 2.1.0.0.39
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WHERE ACADEMIC_YEAR = '2020-21'

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

```
SELECT *  
FROM STUDENT_AD  
WHERE ACADEMIC_YEAR = '2020-21'  
  
SELECT X.CLASS_LOCATION
```

The results table shows two rows:

ID	NAME	ADDRESS	CLASS	CATEGORY	GENDER	MOBILE_NO	ACADEMIC_YEAR	BRANCH
6020520022	GAURAV	DELHI	12	GENERAL	MALE	9109069816	2020-21	ARTS
6020520020	RAJAT	GWAJOR	12	GENERAL	MALE	7024528805	2020-21	PCM

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

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

```
SELECT X.CLASS_LOCATION  
FROM COURSESS_LIST X ,FACULTY_DETAIL Y  
WHERE Y.FACULTY_ID = X.FACULTY_ID;
```

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

```
SELECT X.CLASS_LOCATION  
FROM COURSESS_LIST X ,FACULTY_DETAIL Y  
WHERE Y.FACULTY_ID = X.FACULTY_ID;  
  
SELECT X.COURSE_NAME  
FROM C TITLE X,COURSESS_LIST Y
```

The results table shows four rows:

CLASS_LOCATION
GOLEKAMANDIR
COMPLEX
MORAR
DONAGAR

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

Language: en-us Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

```

SELECT X.COURSE_NAME
FROM C_TITLE X,COURSES_LIST Y
WHERE X.COURSE_NUM=Y.COURSE_NUM

```

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

```

SELECT X.COURSE_NAME
FROM C_TITLE X,COURSES_LIST Y
WHERE X.COURSE_NUM=Y.COURSE_NUM

```

The results window shows a single row:

COURSE_NAME
DATA BASE
CLANGUAGE
CBCS
ELECTRICAL

4 rows returned in 0.00 seconds

CSV Export

Application Express 2.1.0.0.39
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```

SELECT Y.COURSE_ID
FROM STUDENT_AD X ,ENROLLMENT Y
WHERE X.ID=60205220088

```

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

```

SELECT Y.COURSE_ID
FROM STUDENT_AD X ,ENROLLMENT Y
WHERE X.ID=60205220088

```

The results window shows a single row:

COURSE_ID
708
1910
2712
2808

4 rows returned in 0.00 seconds

CSV Export

Application Express 2.1.0.0.39
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```

SELECT MOBILE_NO
FROM STUDENT_AD
WHERE NAME LIKE '%RAJAT%'

```

Screenshot of Oracle Database Express Edition SQL Commands interface:

```

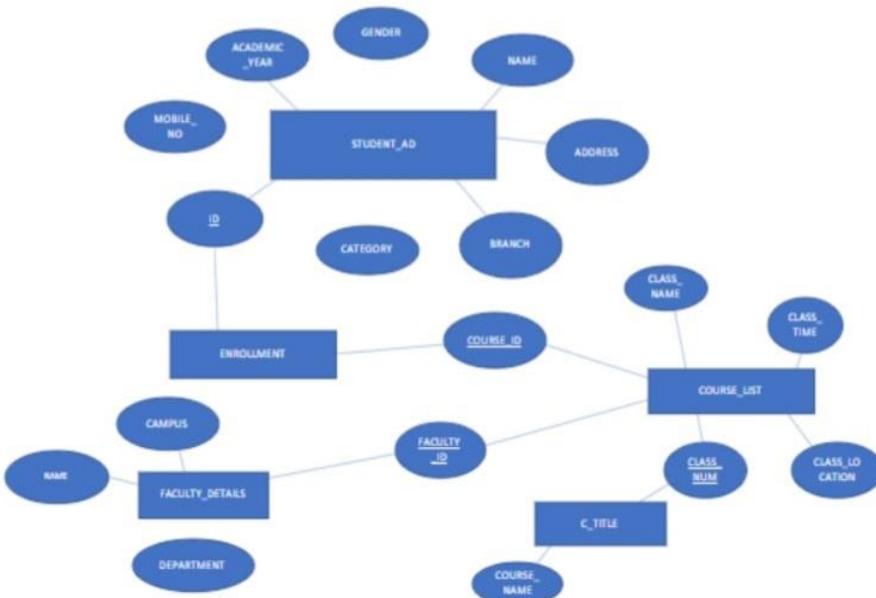
Microsoft Office Home | Amizone | 202.12.103.135/vlab/ | SQL Commands
User: AAB
Home > SQL > SQL Commands
Autocommit Display 10 Save Run
FROM STUDENT_AD X ,ENROLLMENT Y
WHERE X.ID=60205220088

SELECT MOBILE_NO
FROM STUDENT_AD
WHERE NAME LIKE '%RAJAT%'

Results Explain Describe Saved SQL History
MOBILE_NO
7024528805
1 rows returned in 0.00 seconds CSV Export

```

Entity Relationship Diagram.



“This project has been executed in oracle Database Express Edition.”

Thankyou Ma’am