


Database - Oracle

Student Preparation:

Ahmad Sliman

The slide features a light green background with a subtle grid pattern. In the corners, there are decorative elements consisting of light blue lines and small circles, resembling circuit traces or data paths. The main text is centered and reads:

Create tables and
insert data
(and use sequence)

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:606498921280917::NO::

ORACLE Application Express

Welcome AHMAD (Logout)

Home

Application Builder

SQL Workshop

Team Development

Administration

Home > SQL Workshop > SQL Commands

Schema AHMAD

Autocommit Rows 10 Save Run

```
create table repo0(id int, name varchar2(20), quantity int, price Number(7,4));
create sequence w;
insert into repo0 values(w.nextval, 'p1', 40, 100);
insert into repo0 values(w.nextval, 'p2', 30, 350);
insert into repo0 values(w.nextval, 'p3', 50, 150);
insert into repo0 values(w.nextval, 'p4', 70, 250);
insert into repo0 values(w.nextval, 'p5', 50, 700);
insert into repo0 values(w.nextval, 'p6', 54, 200);
insert into repo0 values(w.nextval, 'p7', 32, 900);
insert into repo0 values(w.nextval, 'p8', 87, 650);
insert into repo0 values(w.nextval, 'p9', 23, 850);
insert into repo0 values(w.nextval, 'p10', 65, 750);
select * from repo0
```

Results Explain Describe Saved SQL History

ID	NAME	QUANTITY	PRICE
1	p1	40	100
2	p2	30	350
3	p3	50	150
4	p4	70	250
5	p5	50	700
6	p6	54	200
7	p7	32	900
8	p8	87	650
9	p9	23	850
10	p10	65	750

10 rows returned in 0.00 seconds Download

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:606498921280917::NO::

ORACLE Application Express

Welcome AHMAD (Logout)

Home

Application Builder

SQL Workshop

Team Development

Administration

Home > SQL Workshop > SQL Commands

Schema AHMAD

Autocommit Rows 10 Save Run

```
create table orders(orderNum int, custName varchar2(20), productName varchar2(20), orderQuant int, totalPrice Number(11,4), orderDate DATE, state varchar2(20));
create sequence e;
insert into orders values(e.nextval, 'Ahmad', 'p1', 8, 3500, '1-5-2022', 'pending');
insert into orders values(e.nextval, 'Zain', 'p10', 5, 8500, '1-12-2022', 'pending');
insert into orders values(e.nextval, 'Alaa', 'p7', 3, 5000, '2-4-2022', 'pending');
insert into orders values(e.nextval, 'Mazen', 'p5', 2, 1500, '4-5-2022', 'pending');
insert into orders values(e.nextval, 'Ahmad', 'p3', 3, 1000, '5-2-2022', 'pending');
insert into orders values(e.nextval, 'ALI', 'p6', 4, 2500, '6-5-2022', 'pending');
insert into orders values(e.nextval, 'Tharaa', 'p4', 5, 5500, '6-6-2022', 'pending');
insert into orders values(e.nextval, 'Alaa', 'p2', 9, 500, '7-3-2022', 'pending');
insert into orders values(e.nextval, 'Tharaa', 'p8', 5, 3000, '8-8-2022', 'pending');
insert into orders values(e.nextval, 'Ali', 'p9', 1, 6000, '9-6-2022', 'pending');
select * from orders
```

Results Explain Describe Saved SQL History

ORDERNUM	CUSTNAME	PRODUCTNAME	ORDERQUANT	TOTALPRICE	ORDERDATE	STATE
1	Ahmad	p1	8	3500	01/05/2022	pending
2	Zain	p10	5	8500	01/12/2022	pending
3	Alaa	p7	3	5000	02/04/2022	pending
4	Mazen	p5	2	1500	04/05/2022	pending
5	Ahmad	p3	3	1000	05/02/2022	pending
6	ALI	p6	4	2500	06/05/2022	pending
7	Tharaa	p4	5	5500	06/06/2022	pending
8	Alaa	p2	9	500	07/03/2022	pending
9	Tharaa	p8	5	3000	08/08/2022	pending
10	Ali	p9	1	6000	09/06/2022	pending

10 rows returned in 0.00 seconds Download

The image features a light green background with a subtle radial gradient. In the four corners, there are decorative elements consisting of thin, light blue lines that resemble circuit traces or neural network connections, ending in small circles.

Cursor

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:606498921280917::NO::

HomeApplication BuilderSQL WorkshopTeam DevelopmentAdministration

Home > SQL Workshop > SQL CommandsSchema AHMAD

☒ AutocommitRows 10SaveRun

```
DECLARE
cursor u IS
(select * from repo0);
r repo0 %rowtype;
BEGIN
open u;
loop
  fetch u INTO r;
  exit when u%notfound;
  dbms_output.put_line(r.name||', Available quantity is: ' ||r.quantity||' and price for one piece is ' ||r.price);
End loop;
close u;
END;
```

ResultsExplainDescribeSaved SQLHistory

p1, Available quantity is: 40 and price for one piece is 100
p2, Available quantity is: 30 and price for one piece is 350
p3, Available quantity is: 50 and price for one piece is 150
p4, Available quantity is: 70 and price for one piece is 250
p5, Available quantity is: 50 and price for one piece is 700
p6, Available quantity is: 54 and price for one piece is 200
p7, Available quantity is: 32 and price for one piece is 900
p8, Available quantity is: 87 and price for one piece is 650
p9, Available quantity is: 23 and price for one piece is 850
p10, Available quantity is: 65 and price for one piece is 750

Statement processed.

0.01 seconds

Application Express 4.0.2.00.09

Workspace: AHMAD User: AHMADLanguage: en | Copyright © 1999, 2010, Oracle. All rights reserved.

View 1

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:606498921280917::NO::

ORACLE Application Express

Welcome AHMAD (Logout)

Home

Application Builder

SQL Workshop

Team Development

Administration

Home

SQL Workshop

SQL Commands

Schema AHMAD

Help

☒ Autocommit

Rows 10

Save

Run

```
create or replace view store_view as
select id, name, price from repo0

select * from store_view
```

Results

Explain

Describe

Saved SQL

History

ID	NAME	PRICE
1	p1	100
2	p2	350
3	p3	150
4	p4	250
5	p5	700
6	p6	200
7	p7	900
8	p8	650
9	p9	850
10	p10	750

10 rows returned in 0.00 seconds

Download

View 2

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:606498921280917::NO::

ORACLE Application Express

Welcome AHMAD (Logout)

Home

Application Builder

SQL Workshop

Team Development

Administration

Home > SQL Workshop > SQL Commands

Schema AHMAD

Help

☒ Autocommit

Rows 10

Save

Run

```
create or replace view customer_view as
select orderNum, orderQuant, totalPrice, orderDate from orders
where custName = 'Ahmad';

select * from customer_view
```

Results

Explain

Describe

Saved SQL

History

ORDERNUM	ORDERQUANT	TOTALPRICE	ORDERDATE
1	8	3500	01/05/2022
5	3	1000	05/02/2022

2 rows returned in 0.00 seconds

Download

Workspace: AHMAD User: AHMAD

Application Express 4.0.2.00.09

Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

The background is a light green gradient with faint, concentric circular patterns. In the four corners, there are decorative line art elements resembling circuit boards or neural networks, with thin blue lines and small circles.

Trigger

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:606498921280917::NO::

HomeApplication BuilderSQL WorkshopTeam DevelopmentAdministration

Home > SQL Workshop > SQL CommandsSchema AHMAD

☒ AutocommitRows 10SaveRun

```
create or replace trigger trig
after update
on orders
for each row
BEGIN
update repo0 set quantity = quantity - :old.orderQuant where name = :old.productName;
END;

update orders set state = 'done' where productName = 'p10';

select * from repo0
select * from orders
```

ResultsExplainDescribeSaved SQLHistory

ORDERNUM	CUSTNAME	PRODUCTNAME	ORDERQUANT	TOTALPRICE	ORDERDATE	STATE
1	Ahmad	p1	8	3500	01/05/2022	pending
2	Zain	p10	5	8500	01/12/2022	done
3	Alaa	p7	3	5000	02/04/2022	pending
4	Mazen	p5	2	1500	04/05/2022	pending
5	Ahmad	p3	3	1000	05/02/2022	pending
6	ALI	p6	4	2500	06/05/2022	pending
7	Tharaa	p4	5	5500	06/06/2022	pending
8	Alaa	p2	9	500	07/03/2022	pending
9	Tharaa	p8	5	3000	08/08/2022	pending
10	Ali	p9	1	6000	09/06/2022	pending

10 rows returned in 0.01 secondsDownload

Application Express 4.0.2.00.09

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:606498921280917::NO::

HomeApplication BuilderSQL WorkshopTeam DevelopmentAdministration

Home > SQL Workshop > SQL CommandsSchema AHMAD

☒ AutocommitRows10SaveRun

```
create or replace trigger trig
after update
on orders
for each row
BEGIN
update repo0 set quantity = quantity - :old.orderQuant where name = :old.productName;
END;

update orders set state = 'done' where productName = 'p10';

select * from repo0
select * from orders
```

ResultsExplainDescribeSaved SQLHistory

ID	NAME	QUANTITY	PRICE
1	p1	40	100
2	p2	30	350
3	p3	50	150
4	p4	70	250
5	p5	50	700
6	p6	54	200
7	p7	32	900
8	p8	87	650
9	p9	23	850
10	p10	60	750

10 rows returned in 0.01 secondsDownload

Application Express 4.0.2.00.09