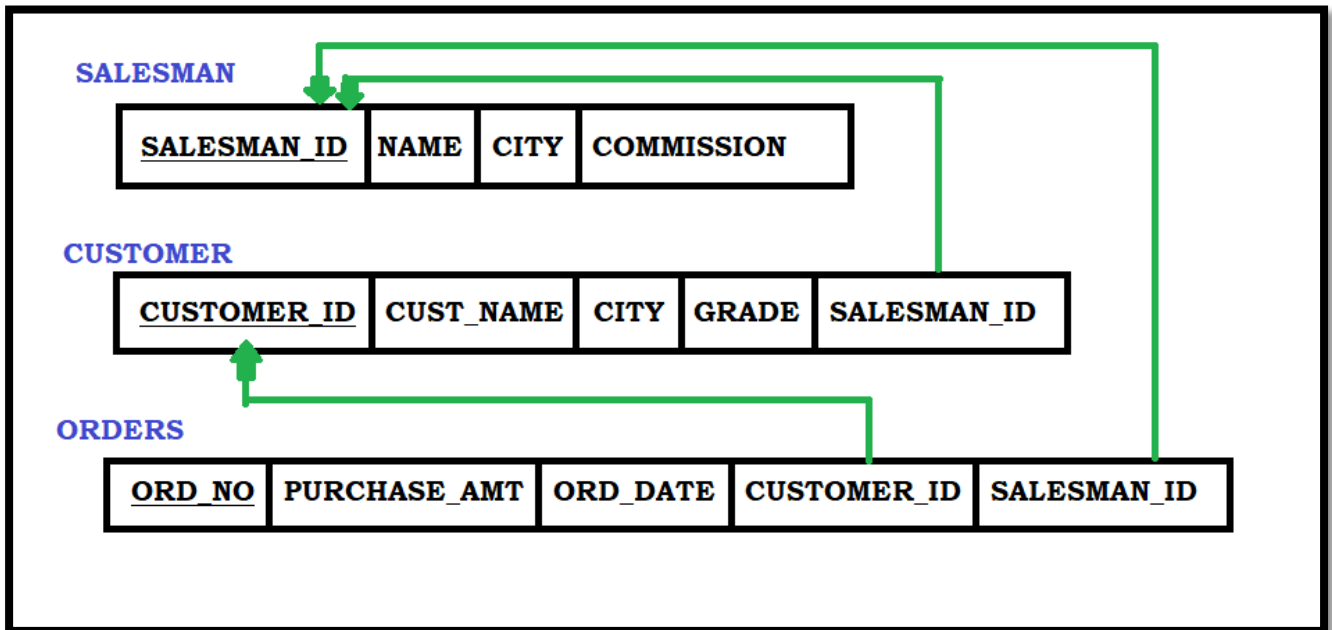


Program - 2



```
SQL Commands
127.0.0.1:8080/apex/f?p=...
ORACLE Database Express Edition
User: KBHR
Home > SQL > SQL Commands
Autocommit Display 10 Save Run
CREATE TABLE SALESMAN(SALESMAN_ID INTEGER PRIMARY KEY, NAME VARCHAR(20) NOT NULL, CITY VARCHAR(50) NOT NULL, COMMISSION VARCHAR(20) NOT NULL);
Results Explain Describe Saved SQL History
Table created.
0.99 seconds
```

```
SQL Commands
127.0.0.1:8080/apex/f?p=...
ORACLE Database Express Edition
User: KBHR
Home > SQL > SQL Commands
Autocommit Display 10 Save Run
CREATE TABLE CUSTOMER(CUSTOMER_ID INTEGER PRIMARY KEY, CUST_NAME VARCHAR(20) NOT NULL, CITY VARCHAR(50), GRADE INTEGER NOT NULL, SALESMAN_ID INTEGER REFERENCES SALESMAN(SALESMAN_ID) ON DELETE CASCADE);
Results Explain Describe Saved SQL History
Table created.
0.15 seconds
```

```
SQL Commands
127.0.0.1:8080/apex/f?p=...
ORACLE Database Express Edition
User: KBHR
Home > SQL > SQL Commands
Autocommit Display 10 Save Run
CREATE TABLE ORDERS(ORD_NO INTEGER PRIMARY KEY, PURCHASED_AMT NUMBER(8,2) NOT NULL, ORD_DATE DATE NOT NULL, CUSTOMER_ID INTEGER REFERENCES CUSTOMER(CUSTOMER_ID) ON DELETE CASCADE, SALESMAN_ID REFERENCES SALESMAN(SALESMAN_ID) ON DELETE CASCADE);
Results Explain Describe Saved SQL History
Table created.
0.11 seconds
```

The screenshot shows the Oracle Database Express Edition interface. The user is logged in as KBHR. The SQL Commands window contains the command `DESC SALESMAN;`. The results show the structure of the SALESMAN table:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SALESMAN	SALESMAN_ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	20	-	-	-	-	-	-
	CITY	Varchar2	50	-	-	-	-	-	-
	COMMISSION	Varchar2	20	-	-	-	-	-	-
									1 - 4

The screenshot shows the Oracle Database Express Edition interface. The user is logged in as KBHR. The SQL Commands window contains the command `DESC CUSTOMER;`. The results show the structure of the CUSTOMER table:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER	CUSTOMER_ID	Number	-	-	0	1	-	-	-
	CUST_NAME	Varchar2	20	-	-	-	-	-	-
	CITY	Varchar2	50	-	-	-	✓	-	-
	GRADE	Number	-	-	0	-	-	-	-
	SALESMAN_ID	Number	-	-	0	-	✓	-	-
									1 - 5

Oracle Database Express Edition interface showing the command `DESC ORDERS;` and its results. The results table is as follows:

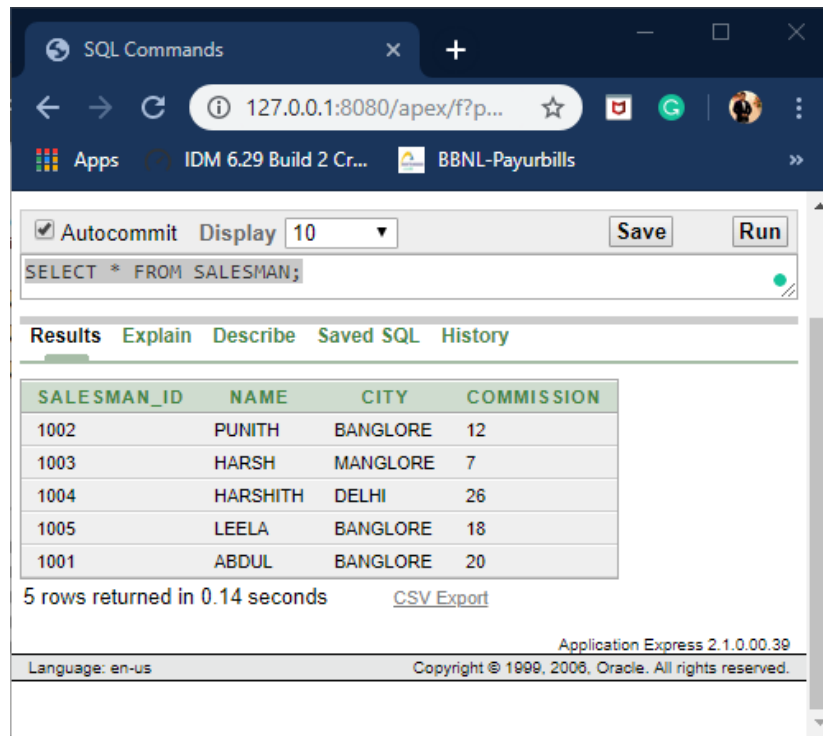
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORDERS	ORD_NO	Number	-	-	0	1	-	-	-
	PURCHASED_AMT	Number	-	8	2	-	-	-	-
	ORD_DATE	Date	7	-	-	-	-	-	-
	CUSTOMER_ID	Number	-	-	0	-	✓	-	-
	SALESMAN_ID	Number	-	-	0	-	✓	-	-

Oracle Database Express Edition interface showing the successful execution of the command `INSERT INTO SALESMAN VALUES(1001, 'ABDUL', 'BANGLORE', 20);`. The results show 1 row(s) inserted in 0.38 seconds.

Oracle Database Express Edition interface showing the successful execution of the command `INSERT INTO CUSTOMER VALUES(2001, 'HEMANTH', 'BANGLORE', 9, 1001);`. The results show 1 row(s) inserted in 0.00 seconds.

Oracle Database Express Edition interface showing the successful execution of the command `INSERT INTO ORDERS VALUES(3001, 25000, '05-JAN-2019', 2001, 1001);`. The results show 1 row(s) inserted in 0.02 seconds.

Application Express 2.1.0.00.39
Language: en-us Copyright © 1999, 2008, Oracle. All rights reserved.



SQL Commands

127.0.0.1:8080/apex/f?p...

Autocommit Display 10 Save Run

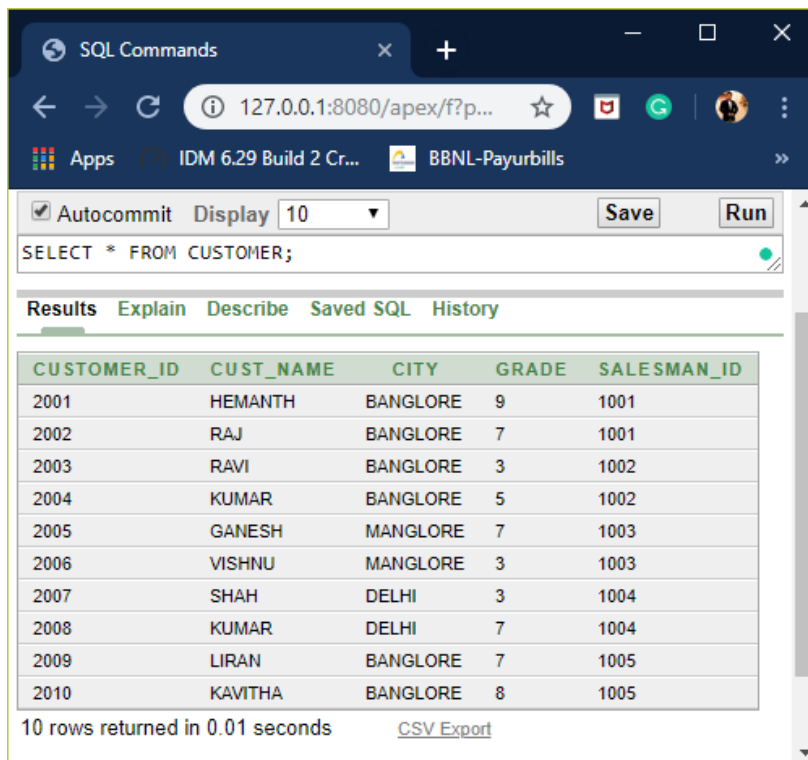
```
SELECT * FROM SALESMAN;
```

Results Explain Describe Saved SQL History

SALESMAN_ID	NAME	CITY	COMMISSION
1002	PUNITH	BANGLORE	12
1003	HARSH	MANGLORE	7
1004	HARSHITH	DELHI	26
1005	LEELA	BANGLORE	18
1001	ABDUL	BANGLORE	20

5 rows returned in 0.14 seconds [CSV Export](#)

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



SQL Commands

127.0.0.1:8080/apex/f?p...

Autocommit Display 10 Save Run

```
SELECT * FROM CUSTOMER;
```

Results Explain Describe Saved SQL History

CUSTOMER_ID	CUST_NAME	CITY	GRADE	SALESMAN_ID
2001	HEMANTH	BANGLORE	9	1001
2002	RAJ	BANGLORE	7	1001
2003	RAVI	BANGLORE	3	1002
2004	KUMAR	BANGLORE	5	1002
2005	GANESH	MANGLORE	7	1003
2006	VISHNU	MANGLORE	3	1003
2007	SHAH	DELHI	3	1004
2008	KUMAR	DELHI	7	1004
2009	LIRAN	BANGLORE	7	1005
2010	KAVITHA	BANGLORE	8	1005

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

The screenshot shows a web browser window titled "SQL Commands" with the URL "127.0.0.1:8080/apex/f?p=45...". The page content includes a navigation bar with "Home > SQL > SQL Commands". Below this, there are controls for "Autocommit" (checked) and "Display" (set to 10), along with "Save" and "Run" buttons. The SQL query entered is "SELECT * FROM ORDERS;". The results are displayed in a table with the following data:

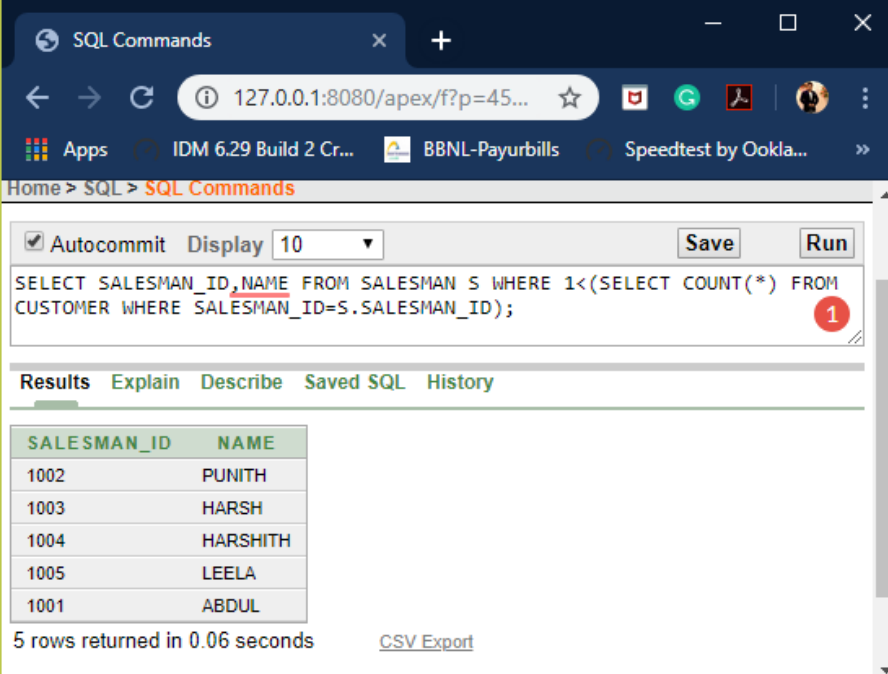
ORD_NO	PURCHASED_AMT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
3001	25000	05-JAN-19	2001	1001
3002	5000	14-FEB-19	2002	1001
3003	18000	24-FEB-19	2003	1002
3004	12000	26-FEB-19	2004	1004
3005	7000	14-MAR-19	2004	1005

Below the table, it states "5 rows returned in 0.08 seconds" and provides a "CSV Export" link. The footer includes "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."

The screenshot shows the same "SQL Commands" interface. The SQL query entered is "SELECT GRADE, COUNT(DISTINCT CUSTOMER_ID) FROM CUSTOMER GROUP BY GRADE HAVING GRADE > (SELECT AVG(GRADE) FROM CUSTOMER WHERE CITY='BANGLORE');". The results are displayed in a table with the following data:

GRADE	COUNT(DISTINCTCUSTOMER_ID)
7	4
8	1
9	1

Below the table, it states "3 rows returned in 0.14 seconds" and provides a "CSV Export" link. The footer includes "Application Express 2.1.0.00.39" and "Copyright © 1999, 2006, Oracle. All rights reserved."



SQL Commands

127.0.0.1:8080/apex/f?p=45...

Home > SQL > SQL Commands

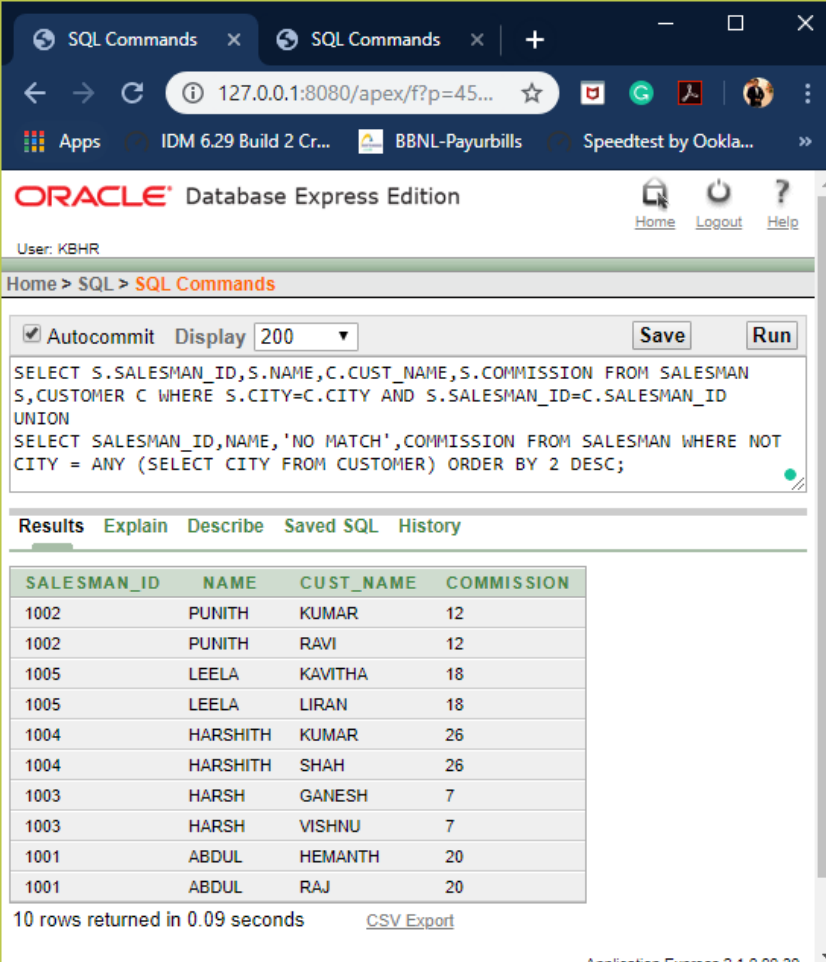
Autocommit Display 10 Save Run

```
SELECT SALESMAN_ID,NAME FROM SALESMAN S WHERE 1<(SELECT COUNT(*) FROM
CUSTOMER WHERE SALESMAN_ID=S.SALESMAN_ID);
```

Results Explain Describe Saved SQL History

SALESMAN_ID	NAME
1002	PUNITH
1003	HARSH
1004	HARSHITH
1005	LEELA
1001	ABDUL

5 rows returned in 0.06 seconds [CSV Export](#)



SQL Commands

127.0.0.1:8080/apex/f?p=45...

ORACLE Database Express Edition

User: KBHR

Home > SQL > SQL Commands

Autocommit Display 200 Save Run

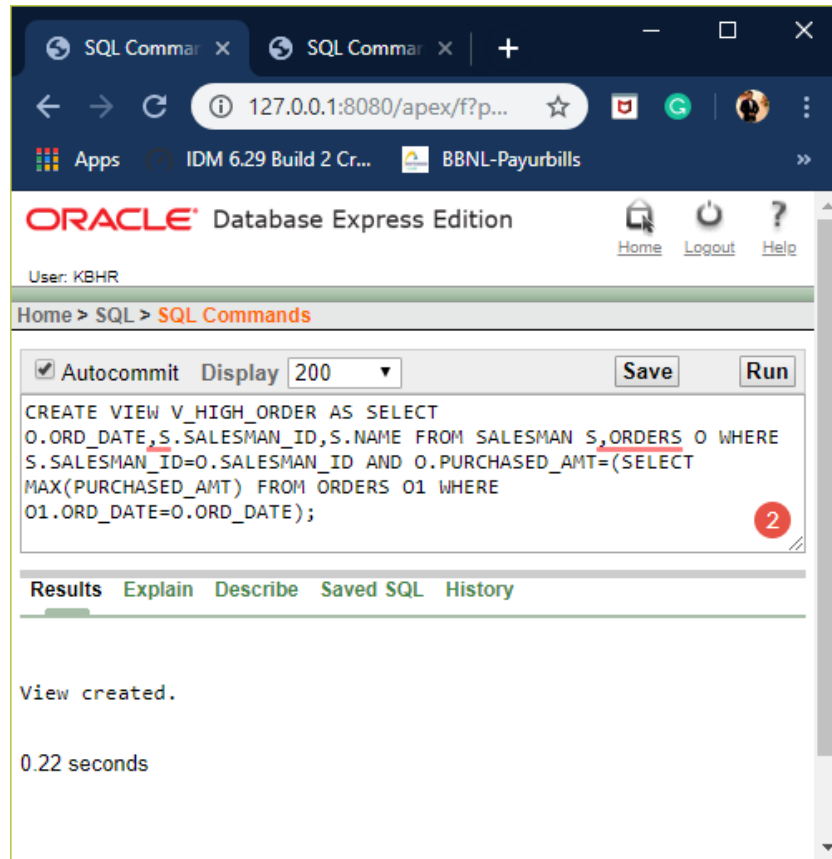
```
SELECT S.SALESMAN_ID,S.NAME,C.CUST_NAME,S.COMMISSION FROM SALESMAN
S,CUSTOMER C WHERE S.CITY=C.CITY AND S.SALESMAN_ID=C.SALESMAN_ID
UNION
SELECT SALESMAN_ID,NAME,'NO MATCH',COMMISSION FROM SALESMAN WHERE NOT
CITY = ANY (SELECT CITY FROM CUSTOMER) ORDER BY 2 DESC;
```

Results Explain Describe Saved SQL History

SALESMAN_ID	NAME	CUST_NAME	COMMISSION
1002	PUNITH	KUMAR	12
1002	PUNITH	RAVI	12
1005	LEELA	KAVITHA	18
1005	LEELA	LIRAN	18
1004	HARSHITH	KUMAR	26
1004	HARSHITH	SHAH	26
1003	HARSH	GANESH	7
1003	HARSH	VISHNU	7
1001	ABDUL	HEMANTH	20
1001	ABDUL	RAJ	20

10 rows returned in 0.09 seconds [CSV Export](#)

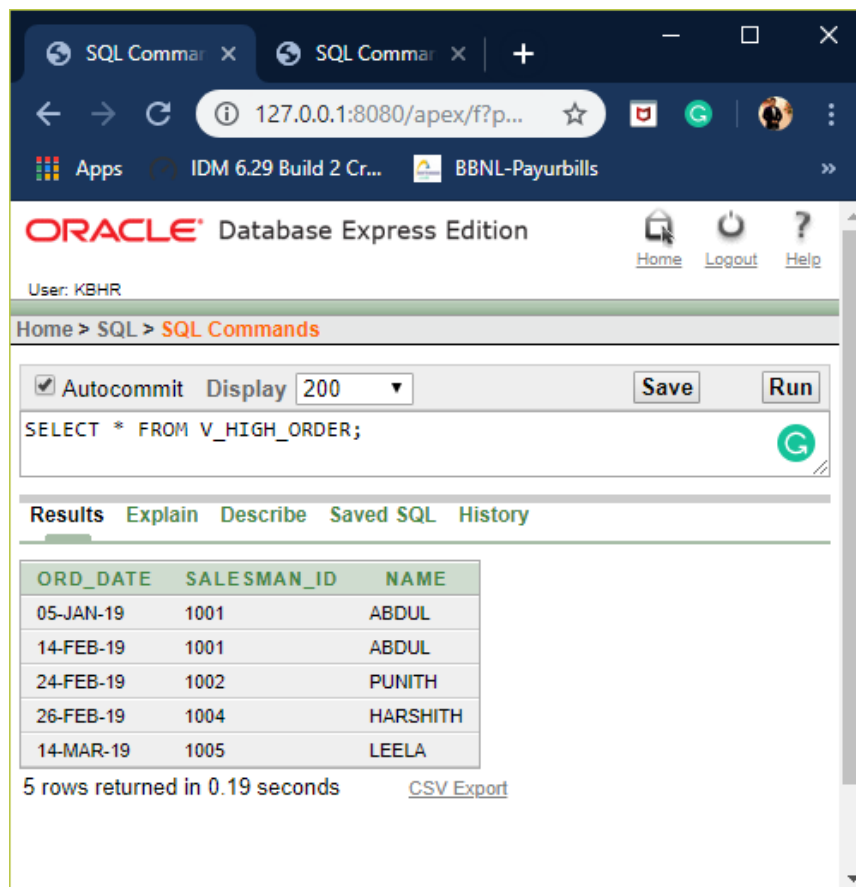
Application Express 2.1.0.00.39



The screenshot shows the Oracle Database Express Edition interface. The user is logged in as 'KBHR'. The page title is 'ORACLE Database Express Edition'. The breadcrumb navigation is 'Home > SQL > SQL Commands'. The 'Autocommit' checkbox is checked, and the 'Display' dropdown is set to '200'. The 'Run' button is highlighted. The SQL command entered is:

```
CREATE VIEW V_HIGH_ORDER AS SELECT
O.ORD_DATE,S.SALESMAN_ID,S.NAME FROM SALESMAN S,ORDERS O WHERE
S.SALESMAN_ID=O.SALESMAN_ID AND O.PURCHASED_AMT=(SELECT
MAX(PURCHASED_AMT) FROM ORDERS O1 WHERE
O1.ORD_DATE=O.ORD_DATE);
```

The results section shows 'View created.' and '0.22 seconds'.



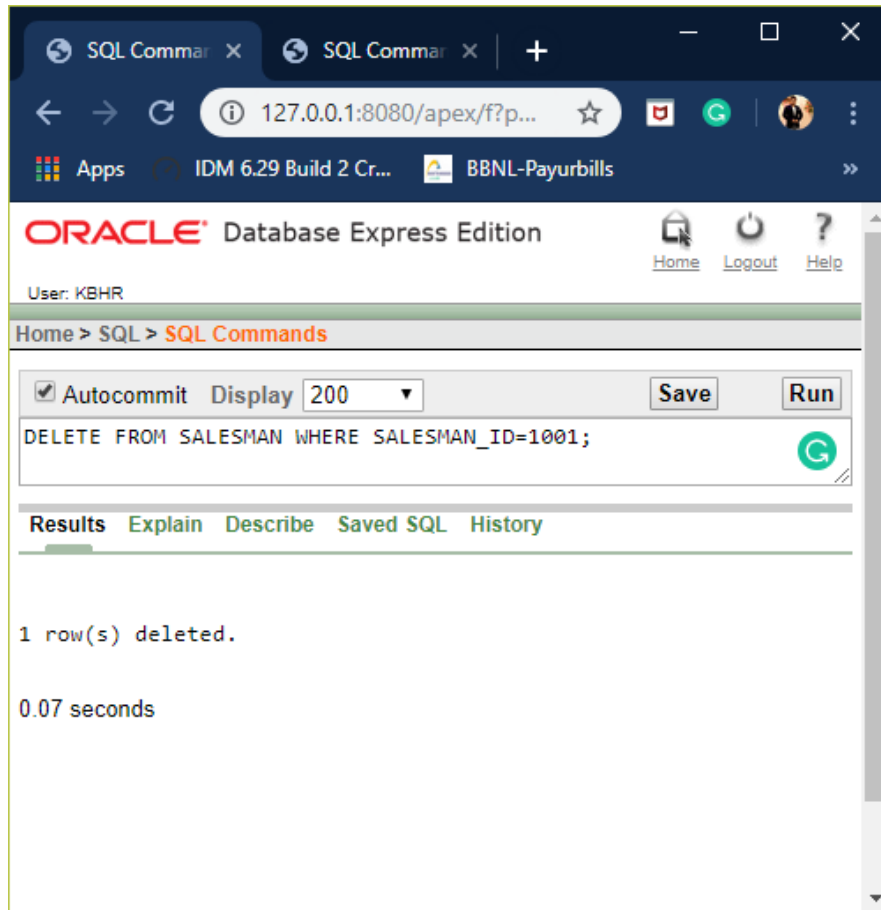
The screenshot shows the Oracle Database Express Edition interface. The user is logged in as 'KBHR'. The page title is 'ORACLE Database Express Edition'. The breadcrumb navigation is 'Home > SQL > SQL Commands'. The 'Autocommit' checkbox is checked, and the 'Display' dropdown is set to '200'. The 'Run' button is highlighted. The SQL command entered is:

```
SELECT * FROM V_HIGH_ORDER;
```

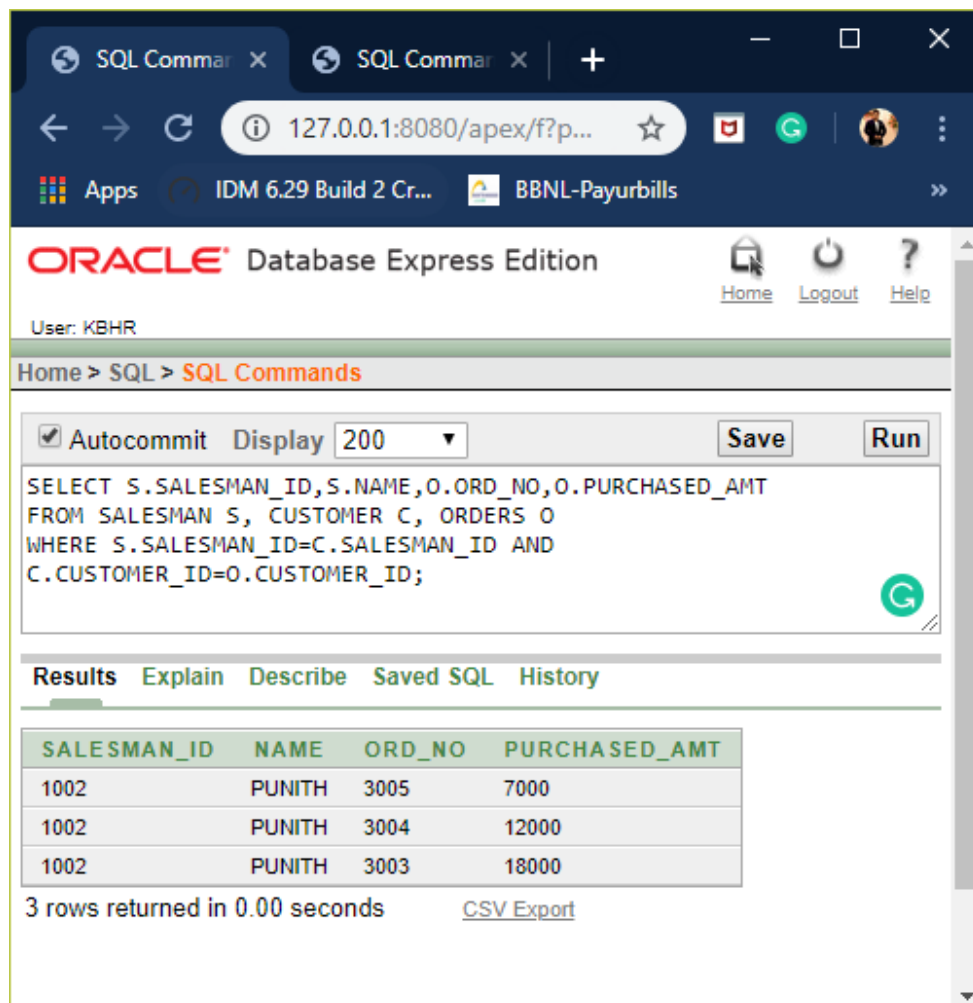
The results section shows a table with 5 rows:

ORD_DATE	SALESMAN_ID	NAME
05-JAN-19	1001	ABDUL
14-FEB-19	1001	ABDUL
24-FEB-19	1002	PUNITH
26-FEB-19	1004	HARSHITH
14-MAR-19	1005	LEELA

5 rows returned in 0.19 seconds [CSV Export](#)



The screenshot shows the Oracle Database Express Edition interface. The browser address bar displays `127.0.0.1:8080/apex/f?p...`. The user is logged in as `KBHR`. The breadcrumb navigation is `Home > SQL > SQL Commands`. The SQL command entered is `DELETE FROM SALESMAN WHERE SALESMAN_ID=1001;`. The execution result shows `1 row(s) deleted.` and `0.07 seconds`.



The screenshot shows the Oracle Database Express Edition interface. The browser address bar displays `127.0.0.1:8080/apex/f?p...`. The user is logged in as `KBHR`. The breadcrumb navigation is `Home > SQL > SQL Commands`. The SQL command entered is `SELECT S.SALESMAN_ID,S.NAME,O.ORD_NO,O.PURCHASED_AMT FROM SALESMAN S, CUSTOMER C, ORDERS O WHERE S.SALESMAN_ID=C.SALESMAN_ID AND C.CUSTOMER_ID=O.CUSTOMER_ID;`. The execution result shows a table with 3 rows returned in 0.00 seconds. The table columns are `SALESMAN_ID`, `NAME`, `ORD_NO`, and `PURCHASED_AMT`.

SALESMAN_ID	NAME	ORD_NO	PURCHASED_AMT
1002	PUNITH	3005	7000
1002	PUNITH	3004	12000
1002	PUNITH	3003	18000

THE END