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Future Vision

By K B Hemanth Raj

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DBMS LABORATORY WITH MINI PROJECT

[As per Choice Based Credit System (CBCS) scheme]

(Effective from the academic year 2017-2018)

SEMESTER – V

Subject Code:**17CSL58**   IA Marks: **40**

Exam Marks: **60**   Exam Hours: **03**

Program - 1

Consider the schema for Movie Database:

ACTOR(Act_id, Act_Name, Act_Gender)

DIRECTOR(Dir_id, Dir_Name, Dir_Phone)

MOVIES(Mov_id, Mov_Title, Mov_Year, Mov_Lang, Dir_id)

MOVIE_CAST(Act_id, Mov_id, Role)

RATING(Mov_id, Rev_Stars)

Write SQL queries to

1. List the titles of all movies directed by 'Hitchcock'.

2. Find the movie names where one or more actors acted in two or more movies.

3. List all actors who acted in a movie before 2000 and also in a movie after 2015

(use JOIN operation).

4. Find the title of movies and number of stars for each movie that has at least one

rating and find the highest number of stars that movie received. Sort the result

by movie title.

5. Update rating of all movies directed by 'Steven Spielberg' to 5.

SCHEMA DIAGRAM:
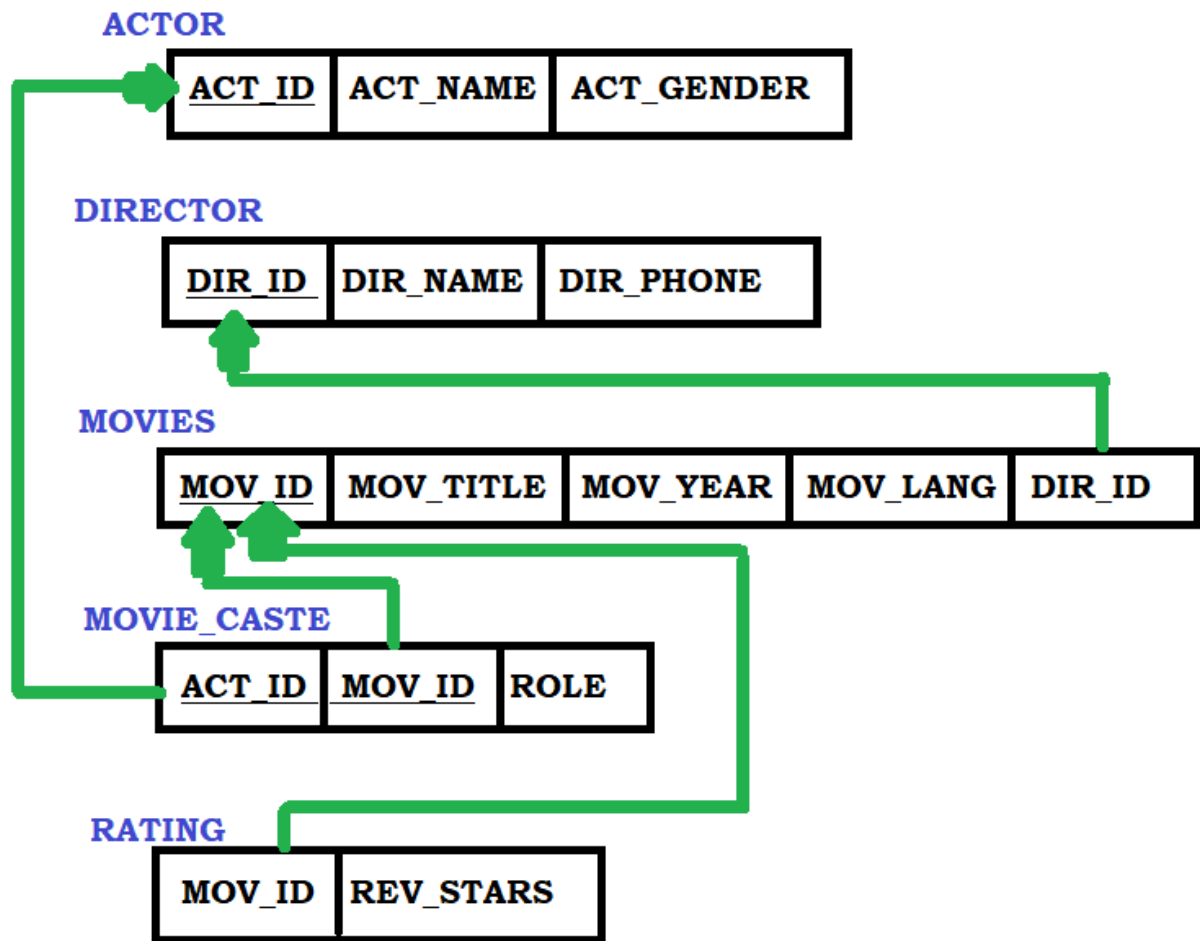
STEPS TO OPEN THE ORACLE DATABASE – 10G EXPRESS EDITION

Step 1: Open the Browser (Preferred Chrome).

Step 2: http://127.0.0.1:8080/ Enter the link on the browser.

Step 3: login with your id and password (finding difficulty in login in go to the link to know in-depth details

https://hemanthrajhemu.github.io/FutureVisionBIE/WP/5CSE/DBMS_LAB_INFO.html

(Note Username is the system by default & Password is the passkey you entered in the installation)

Step 4: Now click on SQL->SQL Commands. This is the place where we execute the SQL Commands.
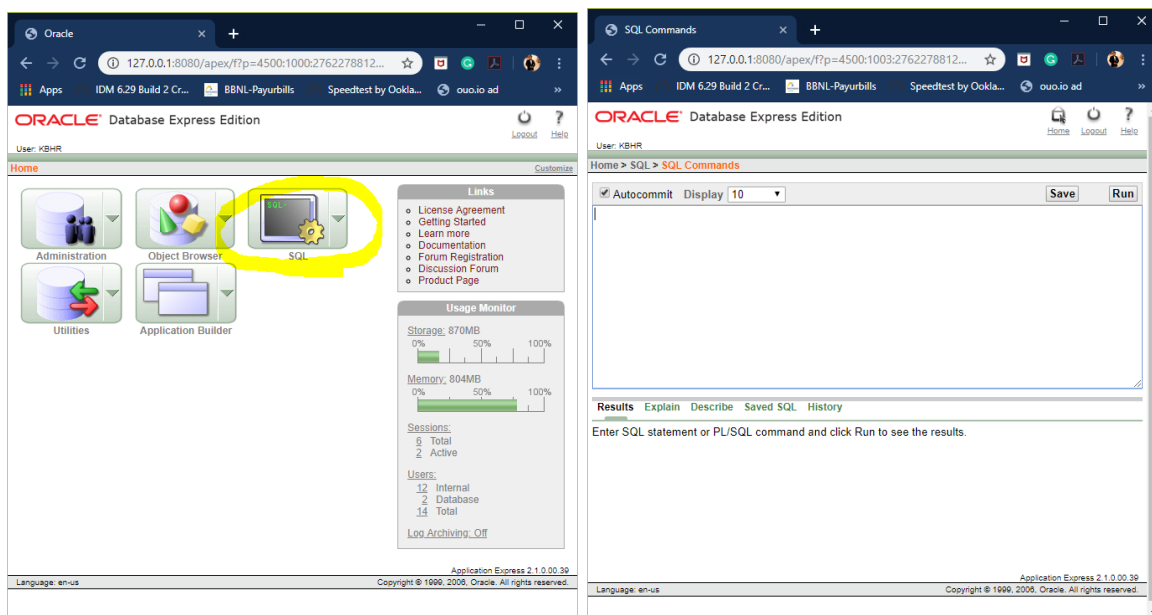
Step 5: you are in SQL Command Now you can Create table, create view, Run Queries here & lot more.

Create Table: (Follow the Schema Diagram in Creating the Data Base)
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1. Create Table for ACTOR

CREATE TABLE ACTOR(
ACT_ID INTEGER PRIMARY KEY,
 ACT_NAME VARCHAR(30) NOT NULL,
ACT_GENDER VARCHAR(10) NOT NULL);

NOW RUN.
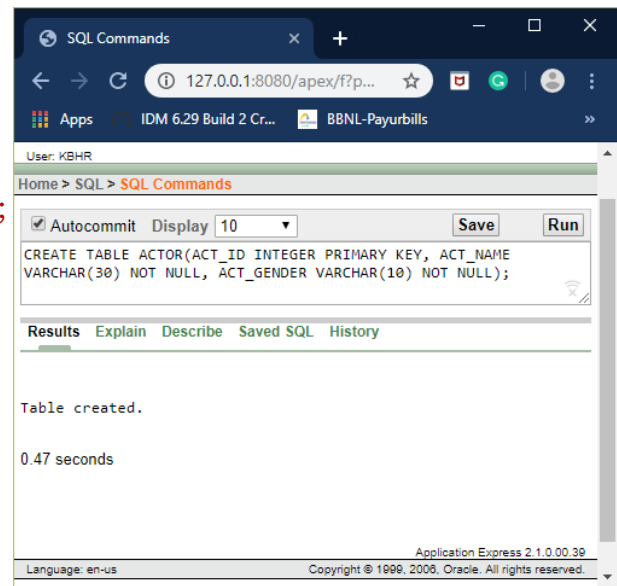
2. Create Table for DIRECTOR

CREATE TABLE DIRECTOR(
DIR_ID INTEGER PRIMARY KEY,
DIR_NAME VARCHAR(30) NOT NULL,
DIR_PHONE INTEGER);

NOW RUN.
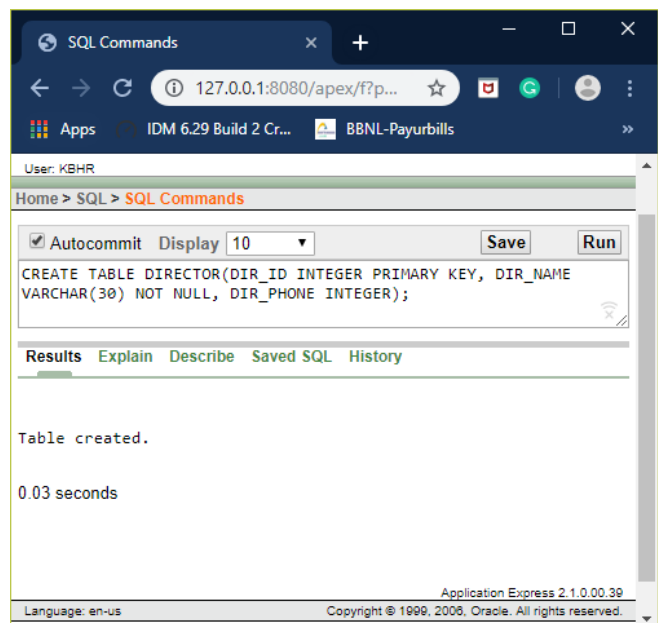
3. Create Table for MOVIES

CREATE TABLE MOVIES(
MOV_ID INTEGER PRIMARY KEY,
MOV_TITLE VARCHAR(30) NOT NULL,
MOV_YEAR INTEGER NOT NULL,
MOV_LANG VARCHAR(10),
DIR_ID INTEGER REFERENCES
DIRECTOR(DIR_ID)
ON DELETE CASCADE);

NOW RUN.
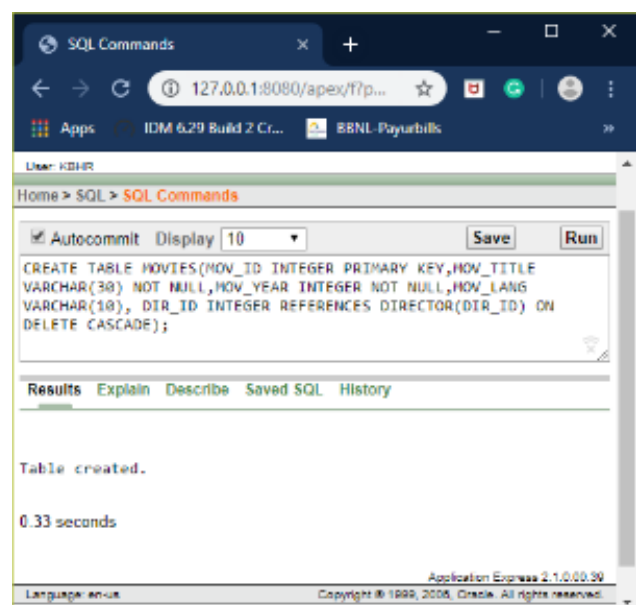
4. **Create Table for MOVIE_CASTE**

CREATE TABLE MOVIE_CASTE(
ACT_ID INTEGER REFERENCES
ACTOR(ACT_ID)
ON DELETE CASCADE,
MOV_ID INTEGER REFERENCES
MOVIES(MOV_ID)
ON DELETE CASCADE,
ROLE VARCHAR(30) NOT NULL);

NOW RUN.
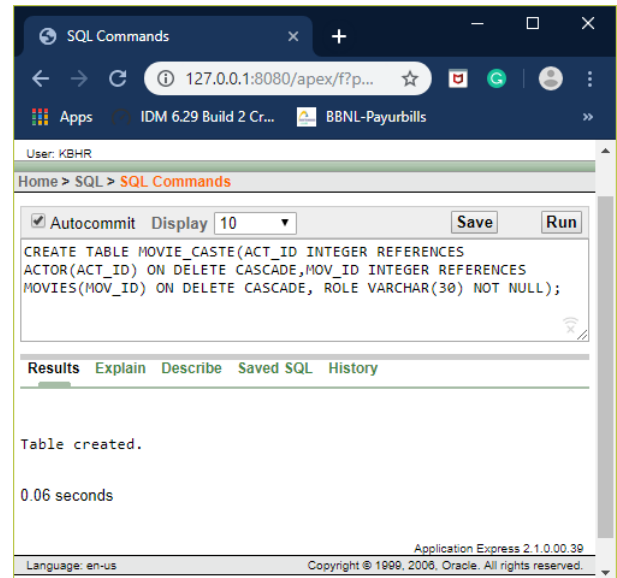
5. **Create Table for RATING**

CREATE TABLE RATING(
MOV_ID INTEGER REFERENCES MOVIES(MOV_ID) ON DELETE CASCADE,
REV_STARS INTEGER NOT NULL);
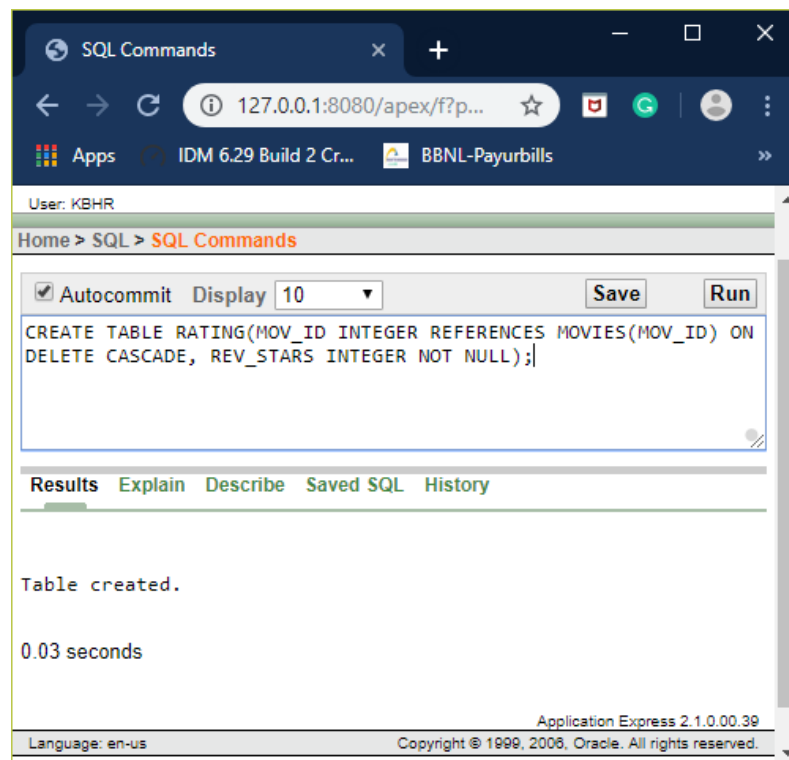
TABLE DESCRIPTION

---

1. DESC ACTOR;

User: KBHR

Home > SQL > SQL Commands

☑ Autocommit Display 10 ▼   Save   Run

DESC ACTOR;

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **ACTOR**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ACTOR	ACT_ID	Number	-	-	0	1	-	-	-
	ACT_NAME	Varchar2	30	-	-	-	-	-	-
	ACT_GENDER	Varchar2	10	-	-	-	-	-	-
								1 - 3	

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

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2. DESC DIRECTOR;

User: KBHR

Home > SQL > SQL Commands

☑ Autocommit Display 10 ▼   Save   Run

DESC DIRECTOR;

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **DIRECTOR**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DIRECTOR	DIR_ID	Number	-	-	0	1	-	-	-
	DIR_NAME	Varchar2	30	-	-	-	-	-	-
	DIR_PHONE	Number	-	-	0	-	✓	-	-
								1 - 3	

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

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3. DESC MOVIES;

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4. DESC MOVIE_CASTE;

----

5. DESC RATING;

INSERTION OF VALUES TO TABLE

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1. VALUES INTO ACTOR

INSERT INTO ACTOR VALUES(<ACT_ID> , <ACT_NAME>, <ACT_GENDER>);

INSERT INTO ACTOR VALUES(1001,'PRABHAS','MALE');
INSERT INTO ACTOR VALUES(1002,'RAJKUMAR','MALE');
INSERT INTO ACTOR VALUES(1003,'SNEHA','FEMALE');
INSERT INTO ACTOR VALUES(1004,'AISHWARAYA','FEMALE');
INSERT INTO ACTOR VALUES(1005,'RITHIK','MALE');
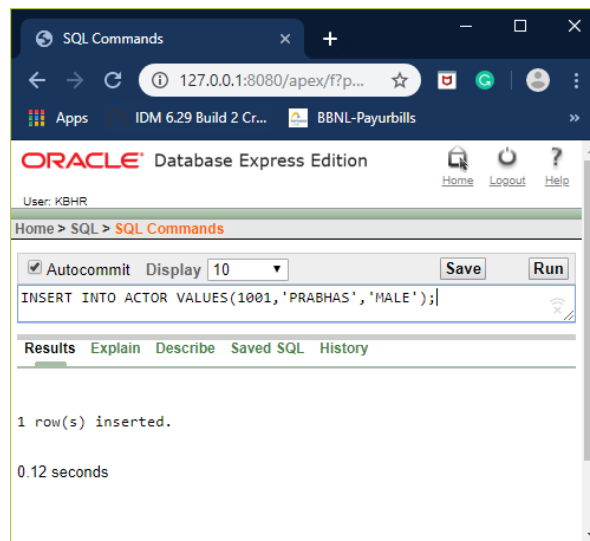
2. VALUES INTO DIRECTOR

INSERT INTO DIRECTOR VALUES(<DIR_ID>,<DIR_NAME>,<DIR_PHONE>);

INSERT INTO DIRECTOR VALUES(2001,'HITCHCOCK','9639639630');
INSERT INTO DIRECTOR VALUES(2002,'STEVEN SPIELBERG','8887779991');
INSERT INTO DIRECTOR VALUES(2003,'RAJMOULI','9995556662');
INSERT INTO DIRECTOR VALUES(2004,'ATLEE','9874569874');
INSERT INTO DIRECTOR VALUES(2005,'HEMANTH','9874555780');
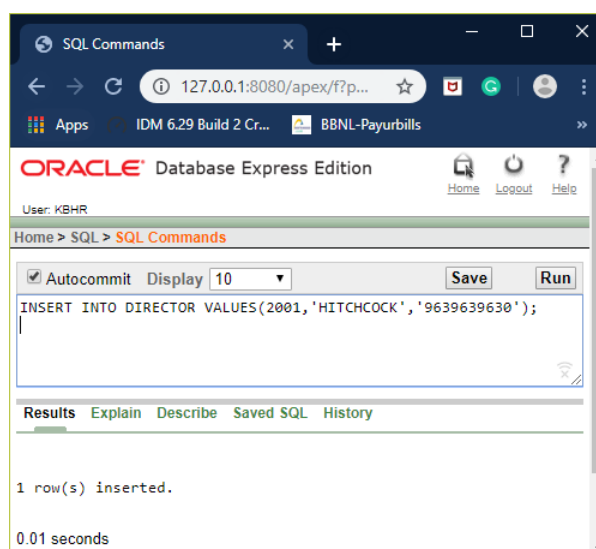
3. **VALUES INTO MOVIES**

INSERT INTO MOVIES
VALUES(<MOV_ID>,<MOV_TITLE>,<MOV_YEAR>,<MOV_LANG>,<DIR_ID>);

INSERT INTO MOVIES VALUES(3001,'BAHUBALI',2014,'HINDI',2003);
INSERT INTO MOVIES VALUES(3002,'BAHUBALI',2014,'TELUGU',2003);
INSERT INTO MOVIES VALUES(3003,'BAHUBALI 2',2016,'HINDI',2003);
INSERT INTO MOVIES VALUES(3004,'BAHUBALI 2',2016,'TELUGU',2003);
INSERT INTO MOVIES VALUES(3005,'BABY DRIVER ',1999,'ENGLISH',2001);
INSERT INTO MOVIES VALUES(3006,'TERMINATOR',2000,'ENGLISH',2002);
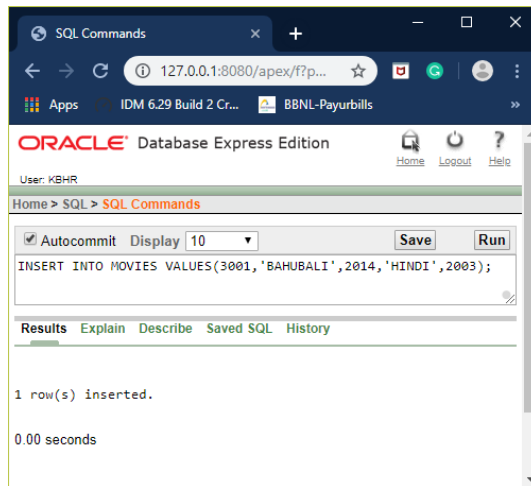
4. **VALUES INTO MOVIE_CASTE**

INSERT INTO MOVIE_CASTE VALUES(<ACT_ID>,<MOV_ID>,<ROLE>);

INSERT INTO MOVIE_CASTE VALUES(1001,3001,'HERO');
INSERT INTO MOVIE_CASTE VALUES(1001,3002,'HERO');
INSERT INTO MOVIE_CASTE VALUES(1001,3003,'HERO');
INSERT INTO MOVIE_CASTE VALUES(1001,3004,'HERO');
INSERT INTO MOVIE_CASTE VALUES(1003,3001,'HEROINE');
INSERT INTO MOVIE_CASTE VALUES(1003,3002,'HEROINE');
INSERT INTO MOVIE_CASTE VALUES(1004,3001,'HEROINE');
INSERT INTO MOVIE_CASTE VALUES(1004,3002,'HEROINE');
INSERT INTO MOVIE_CASTE VALUES(1001,3005,'HERO');
INSERT INTO MOVIE_CASTE VALUES(1001,3006,'HERO');
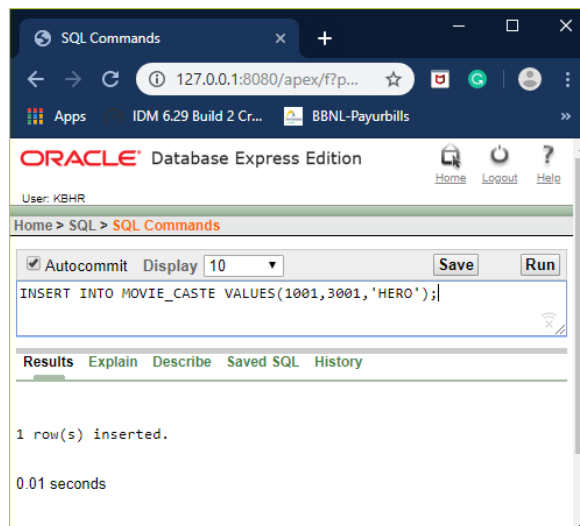
5. **VALUES INTO RATING**

INSERT INTO RATING VALUES(<MOV_ID>,<REV_STARS>);

INSERT INTO RATING VALUES(3001,'8');
INSERT INTO RATING VALUES(3002,'7');
INSERT INTO RATING VALUES(3003,'6');
INSERT INTO RATING VALUES(3004,'7');
INSERT INTO RATING VALUES(3005,'4');
INSERT INTO RATING VALUES(3006,'2');
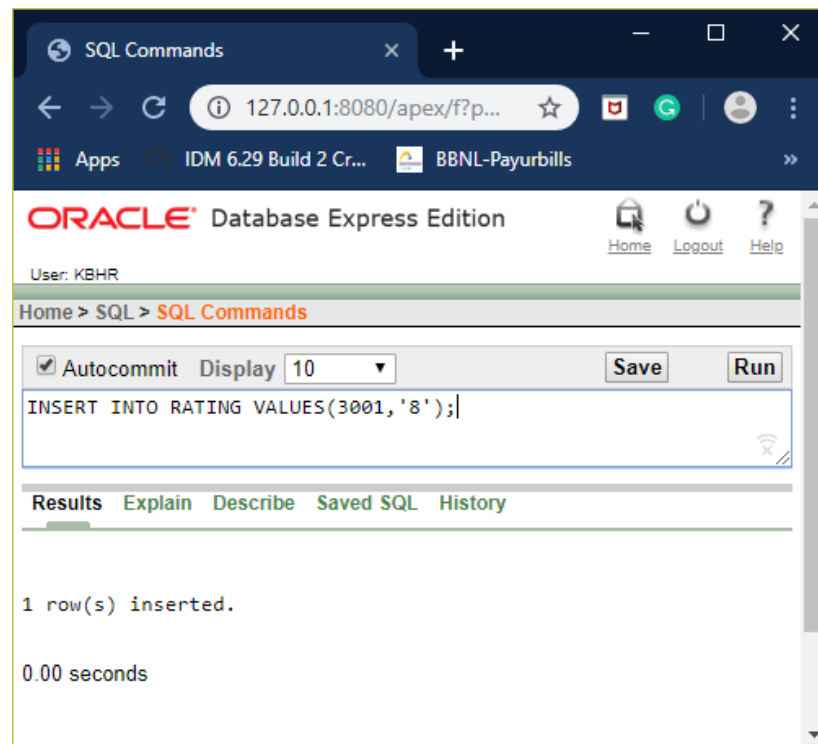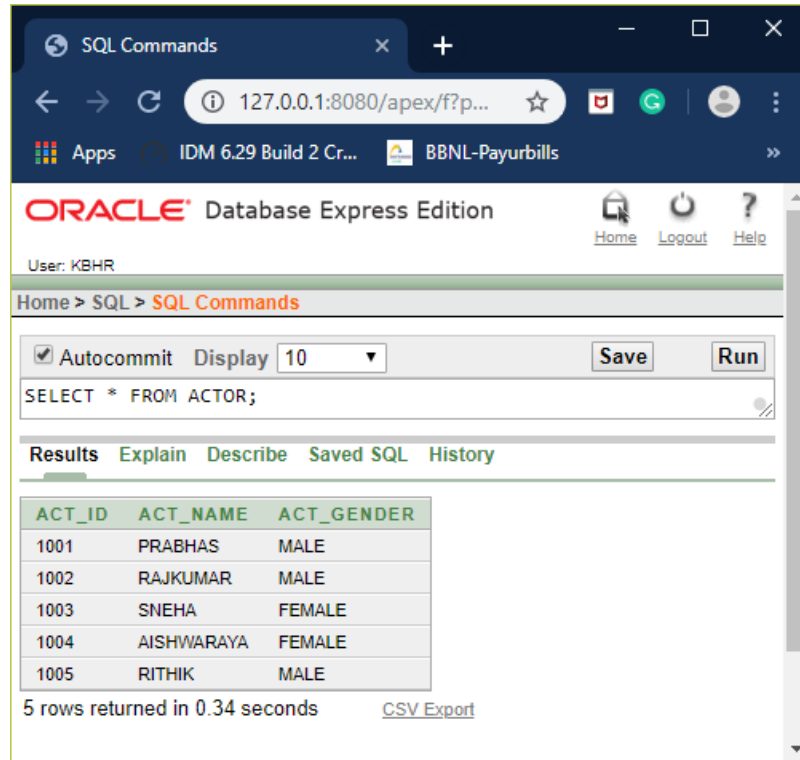
RETRIEVAL OF INSERTED VALUES
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1. ACTORS:

SELECT * FROM ACTOR;
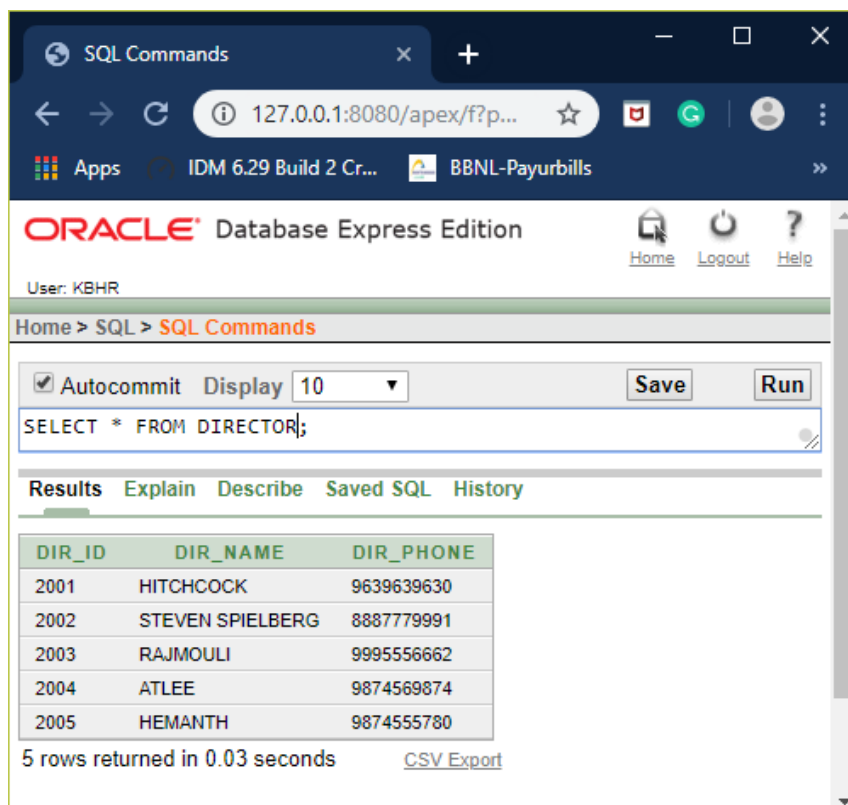
2. DIRECTOR:

SELECT * FROM DIRECTOR;

3. MOVIES:

SELECT * FROM MOVIES;

4. MOVIE_CASTE:

SELECT * FROM MOVIE_CASTE;

5. RATING:

SELECT * FROM RATING;

QUERIES
----

1. **List the titles of all movies directed by 'Hitchcock'.**

SELECT M.MOV_TITLE FROM MOVIES M,DIRECTOR D WHERE
D.DIR_NAME='HITCHCOCK' AND D.DIR_ID=M.DIR_ID;

2. **Find the movie names where one or more actors acted in two or more movies.**
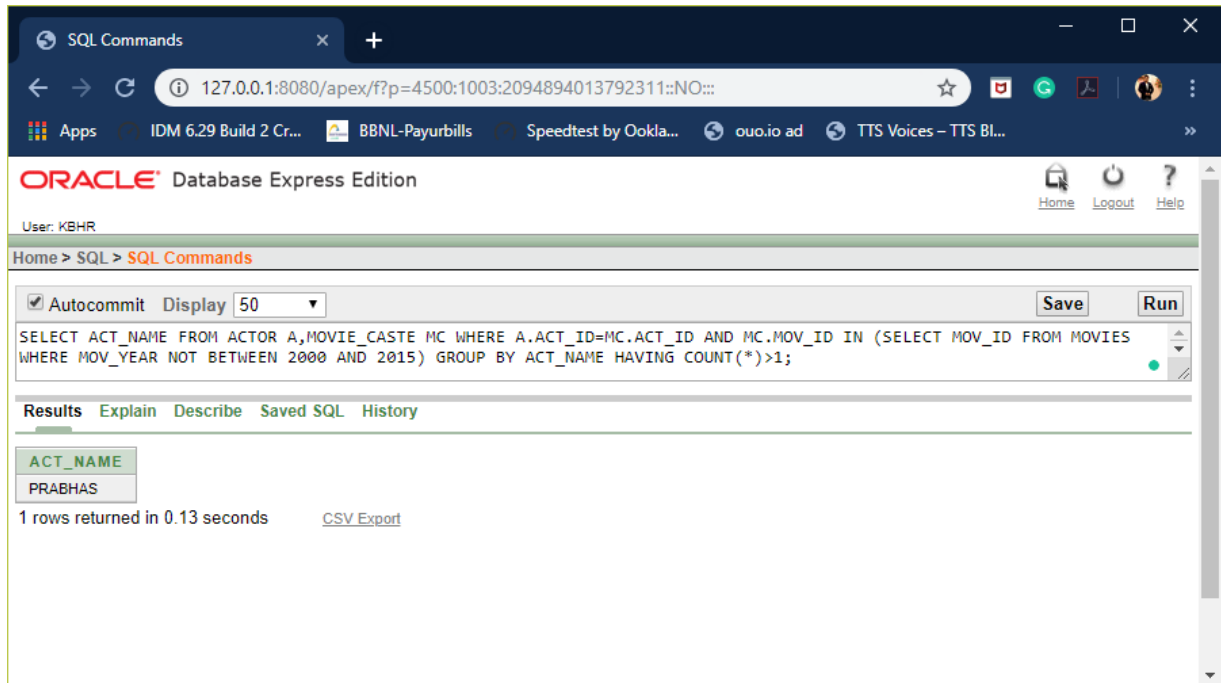
SELECT MOV_TITLE FROM MOVIES M,MOVIE_CASTE MC
WHERE M.MOV_ID=MC.MOV_ID AND ACT_ID IN
    (SELECT ACT_ID FROM MOVIE_CASTE
     GROUP BY ACT_ID HAVING COUNT(ACT_ID)>1)
GROUP BY MOV_TITLE HAVING COUNT(MOV_TITLE)>1;

3. **List all actors who acted in a movie before 2000 and also in a movie after 2015.**

SELECT ACT_NAME FROM ACTOR A, MOVIE_CASTE MC WHERE A.ACT_ID=MC.ACT_ID AND MC.MOV_ID IN (SELECT MOV_ID FROM MOVIES WHERE MOV_YEAR NOT BETWEEN 2000 AND 2015) GROUP BY ACT_NAME HAVING COUNT(*)>1;
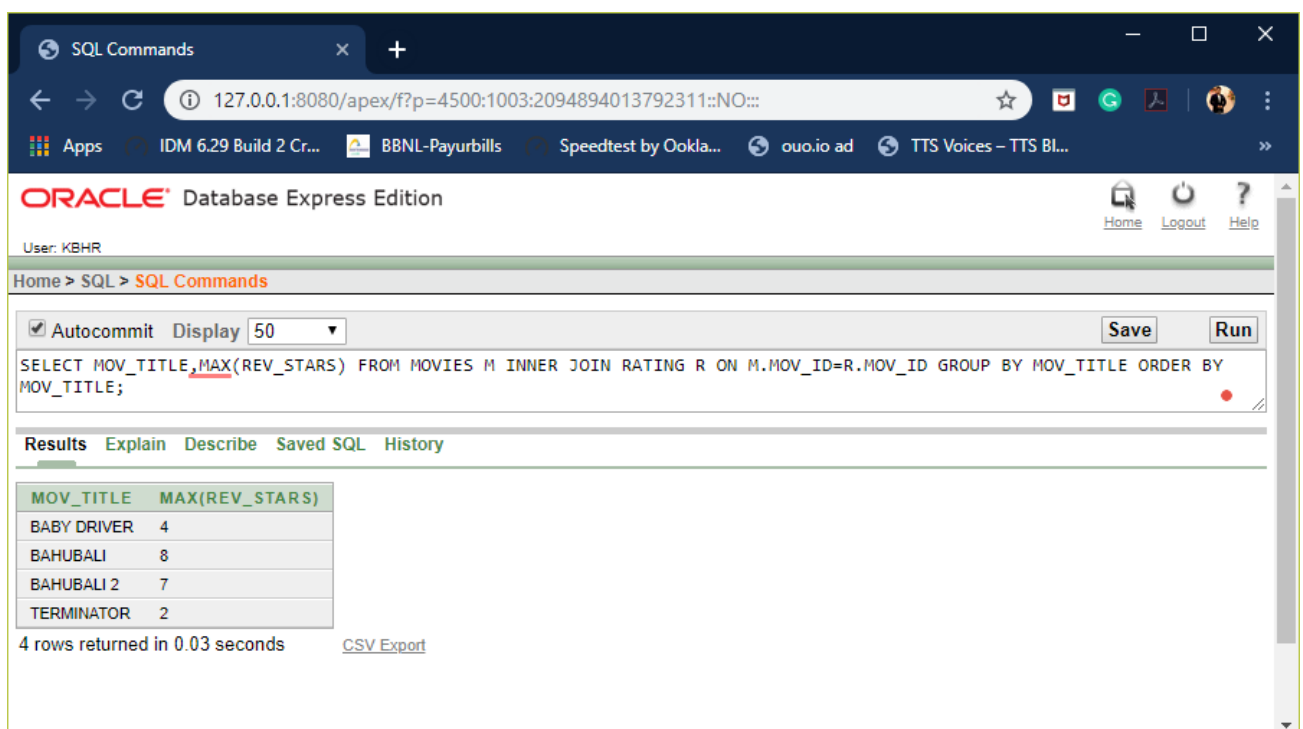

4. **Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.**

SELECT MOV_TITLE,MAX(REV_STARS) FROM MOVIES M INNER JOIN RATING R ON M.MOV_ID=R.MOV_ID GROUP BY MOV_TITLE ORDER BY MOV_TITLE;

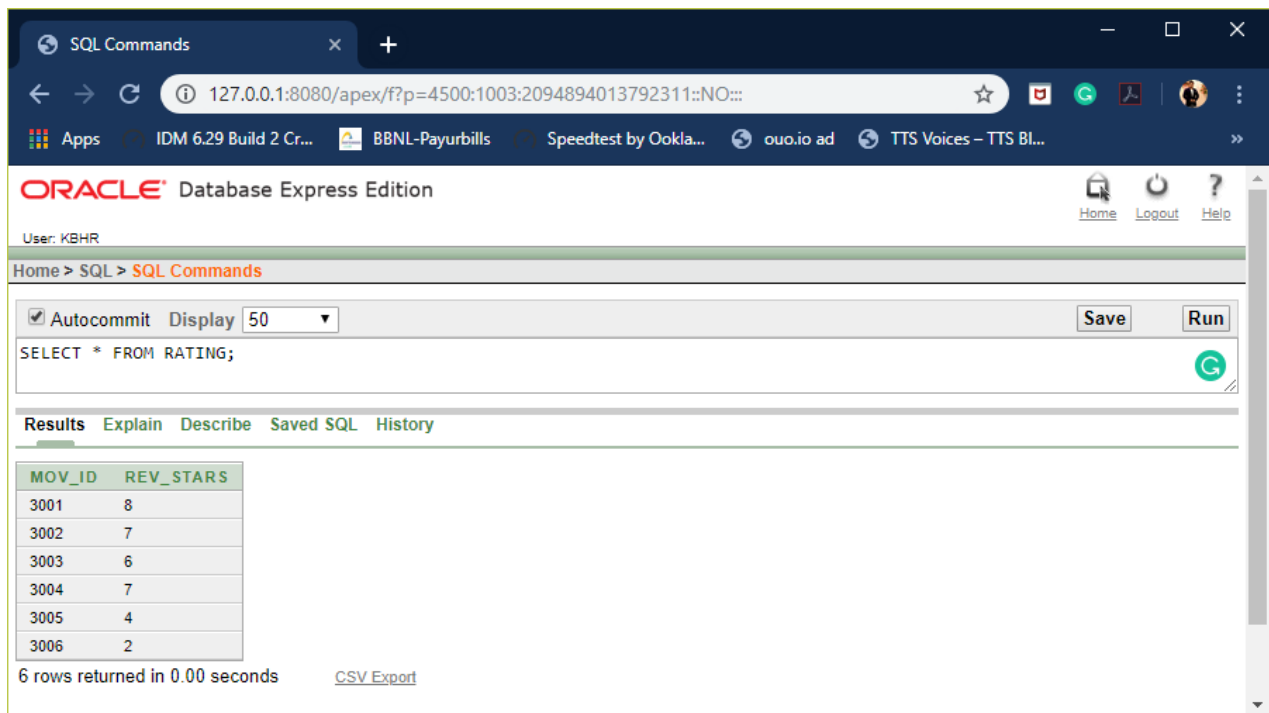## 5. Update rating of all movies directed by 'Steven Spielberg' to 5.

SELECT * FROM RATING;
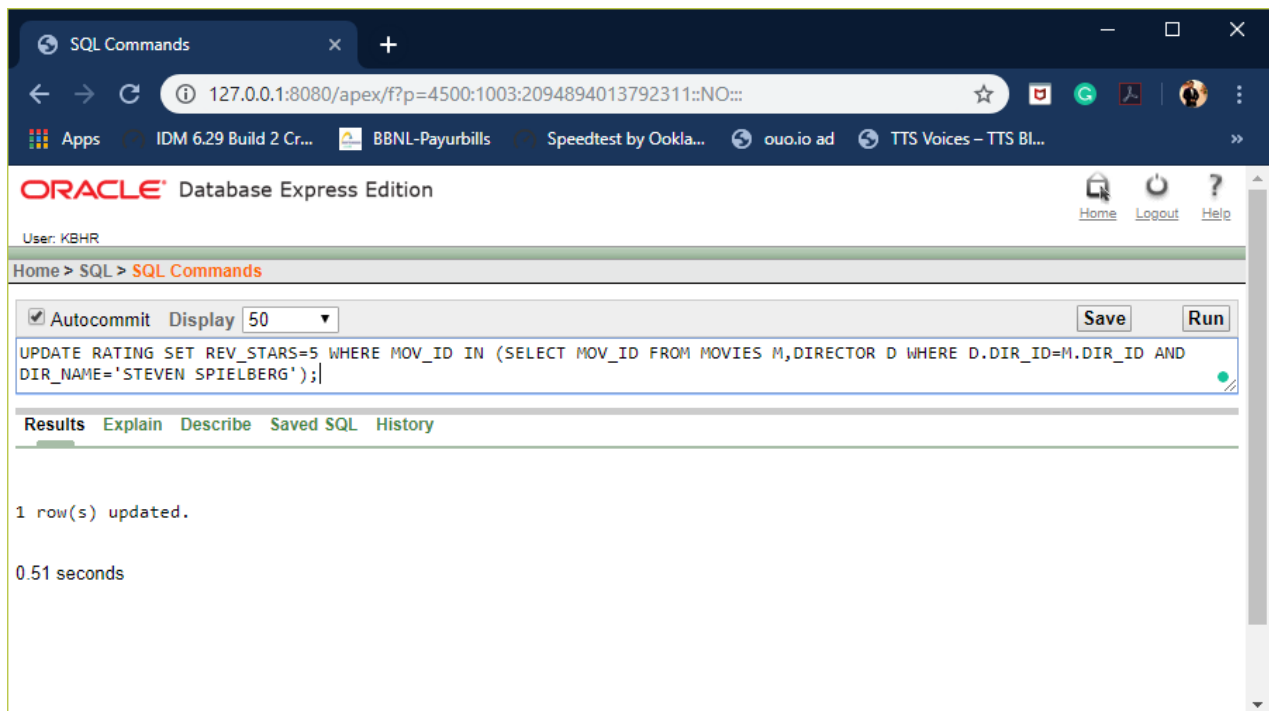
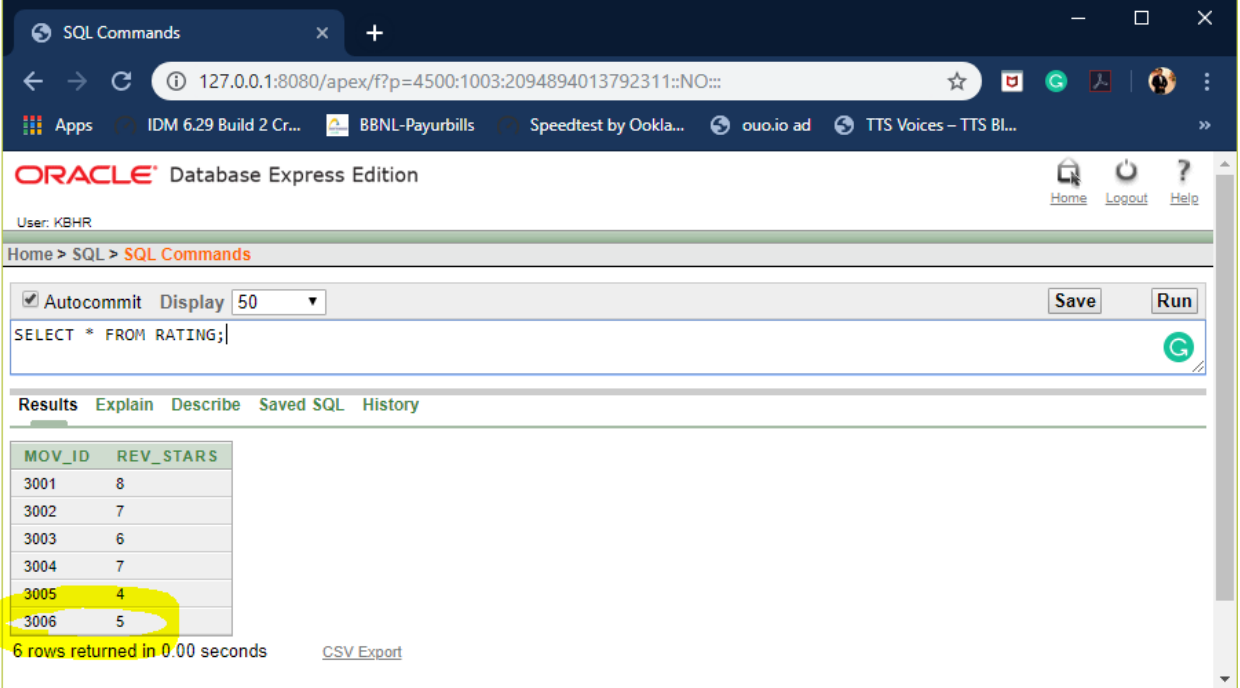---

UPDATE RATING SET REV_STARS=5 WHERE MOV_ID IN (SELECT MOV_ID FROM MOVIES M,DIRECTOR D WHERE D.DIR_ID=M.DIR_ID AND DIR_NAME='STEVEN SPIELBERG');

SELECT * FROM RATING;

THE END