

DBMS LAB-III

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1. Add, Modify and Delete Column using Alter Command.

(i) Add:

```
ALTER TABLE MOVIES
ADD(
    Raitings int NOT NULL
)
```

Results	Explain	Describe	Saved SQL	History
Table altered.				
0.19 seconds				

(ii) Modify:

Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

```
ALTER TABLE MOVIES
MODIFY(
    PRIMARY KEY(MoviesID)
)
```

Results	Explain	Describe	Saved SQL	History
Table altered.				
0.25 seconds				

(iii) Delete:

Home > SQL > SQL Commands				
<input checked="" type="checkbox"/> Autocommit Display 10 ▾				
<pre>ALTER TABLE MOVIES DROP(Location);</pre>				
Results	Explain	Describe	Saved SQL	History
Table altered.				
0.50 seconds				

2. Insert 20 Employees Data into all the tables. Use all the 3 methods that I have showcased.

(i)

Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

INSERT INTO MOVIES VALUES(100,'October',3)

Results	Explain	Describe	Saved SQL	History
MOVIESID	MOVIES_NAME	RAITINGS		
100	October	3		
1 rows returned in 0.00 seconds				
CSV Export				

(ii)

Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

```

INSERT ALL
INTO MOVIES (MoviesID,Movies name,Raitings)VALUES (101,'Phir Hera Pheri',5)
INTO MOVIES (MoviesID,Movies name,Raitings)VALUES(102,'Fuckrey',4)
SELECT * FROM dual;

```

Results	Explain	Describe	Saved SQL	History
2 row(s) inserted.				
0.03 seconds				

Results Explain Describe Saved SQL History

MOVIESID	MOVIES_NAME	RAITINGS
100	October	3
101	Phir Hera Pheri	5
102	Fuckrey	4

3 rows returned in 0.02 seconds

[CSV Export](#)

(iii)

```
Home > SQL > SQL Commands

☒ Autocommit  Display 20 ▼

INSERT ALL
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (103,'Shawshank Redumption',5)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (104,'Fuckrey 2',4)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (105,'Kal hona ho',4)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (106,'OMG',5)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (107,'Sadak 2',1)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (108,'Delhi Belli',2)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (109,'White Tiger',4)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (110,'Kabir Singh',5)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (111,'Avengers',5)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (112,'Avengers-Infinity War',5)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (113,'Rockstar',3)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (114,'Sholay',5)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (115,'Inception',5)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (116,'Housefull 4',2)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (117,'Star Wars',4)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (118,'Godzilla',4)
INTO MOVIES (MoviesID,Movies_name,Raitings)VALUES (119,'Bazzar',4)
SELECT * FROM dual;
```

Results	Explain	Describe	Saved SQL	History
MOVIESID	MOVIES_NAME	RAITINGS		
100	October	3		
101	Phir Hera Pheri	5		
102	Fuckrey	4		
103	Shawshank Redumption	5		
104	Fuckrey 2	4		
105	Kal hona ho	4		
106	OMG	5		
107	Sadak 2	1		
108	Delhi Belli	2		
109	White Tiger	4		
110	Kabir Singh	5		
111	Avengers	5		
112	Avengers-Infinity War	5		
113	Rockstar	3		
114	Sholay	5		
115	Inception	5		
116	Housefull 4	2		
117	Star Wars	4		
118	Godzilla	4		
119	Bazzar	4		
20 rows returned in 0.00 seconds				
			CSV Export	

3. Show Violation of Primary Key, Unique Not Null and default key constraints through insertion.

```
Home > SQL > SQL Commands
```

☒ Autocommit Display 20 ▼

```
INSERT INTO MOVIES VALUES(100, 'ROBOT', 3)
```

```
Results Explain Describe Saved SQL History
```

```
ORA-00001: unique constraint (AHAN.SYS_C004034) violated
```

0.29 seconds

4. Insert tuples into the table and see how foreign key constraint works if you try to insert into dependent table first.

(i) Creating table with a foreign key

```
Home > SQL > SQL Commands
```

☒ Autocommit Display 10 ▼

```
CREATE TABLE DIRECTOR
(
    MoviesID int,
    Directors varchar(255) NOT NULL,
    PRIMARY KEY (MoviesID),
    FOREIGN KEY (MoviesID) REFERENCES MOVIES(MoviesID)
);
```

Results	Explain	Describe	Saved SQL	History
Table created.				
0.26 seconds				

(ii) Inserting tuple which has the MOVIESID already in MOVIES table

Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

INSERT INTO DIRECTOR VALUES(100,'Shoojit Sircar')

Results	Explain	Describe	Saved SQL	History
1 row(s) inserted.				
0.00 seconds				

Results Explain Describe Saved SQL History

MOVIESID	DIRECTORS
100	Shoojit Sircar

1 rows returned in 0.01 seconds

[CSV Export](#)

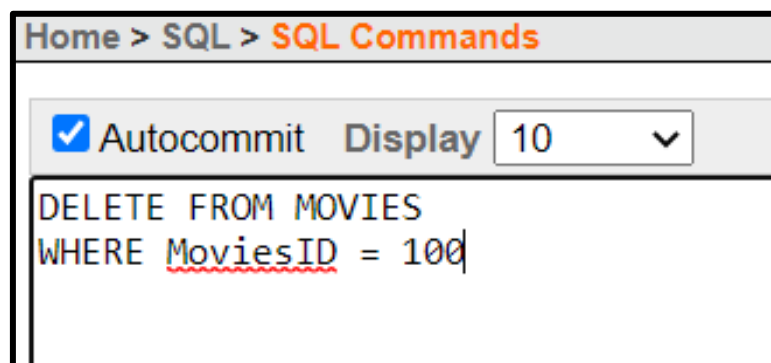
(iii) Trying to insert tuple with new MOVIEID

☒ Autocommit Display 10 ▼

INSERT INTO DIRECTOR VALUES(121,'Shoojit Sircar')



5. Show Violation of Foreign Key Constraint when you try to delete from a base table. If you get an error explain why deletion gives an error.



- Due to Referential Integrity Of Foreign Key, we cannot delete any tuple from base table which are linked with the referencing table because after deletion that entity from the child table won't be able to point to the base table.

6. Try to update a non-existing entity data and check for error.

The screenshot shows two windows from a database management tool. The top window, titled "Home > SQL > SQL Commands", has a toolbar with "Autocommit" checked and "Display" set to 10. The SQL command entered is:

```
ALTER TABLE MOVIESSSS
MODIFY(
    PRIMARY KEY(MoviesID)
)
```

The bottom window, titled "Results", has tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Results" tab is active, showing an error message in a grey box: "ORA-00942: table or view does not exist". Below the error message, the execution time "0.09 seconds" is displayed.

7. Add a column which has default value.

The screenshot shows two windows from a database management tool. The top window, titled "Home > SQL > SQL Commands", has a toolbar with "Autocommit" checked and "Display" set to 10. The SQL command entered is:

```
ALTER TABLE MOVIES
ADD(
    SL_NO int DEFAULT 1
)
```

The bottom window, titled "Results", has tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Results" tab is active, showing the message "Table altered." in a monospaced font. Below the message, the execution time "0.02 seconds" is displayed.

Results	Explain	Describe	Saved SQL	History
MOVIESID	MOVIES_NAME	RAITINGS	SL_NO	
100	October	3	1	
101	Phir Hera Pheri	5	1	
102	Fuckrey	4	1	
103	Shawshank Redumption	5	1	
104	Fuckrey 2	4	1	
105	Kal hona ho	4	1	
106	OMG	5	1	
107	Sadak 2	1	1	
108	Delhi Belli	2	1	
109	White Tiger	4	1	
110	Kabir Singh	5	1	
111	Avengers	5	1	
112	Avengers-Infinity War	5	1	
113	Rockstar	3	1	
114	Sholay	5	1	
115	Inception	5	1	
116	Housefull 4	2	1	
117	Star Wars	4	1	
118	Godzilla	4	1	
119	Bazaar	4	1	

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

8. 5 Simple Select queries to retrieve data from your database.

(i)

Home > SQL > SQL Commands

☒ Autocommit
 Display

```

SELECT
    table_name
FROM
    user_tables;
  
```

Results	Explain	Describe	Saved SQL	History
TABLE_NAME				
CUSTOMERS				
SUPPLIERS				
HTMLDB_PLAN_TABLE				
THIS_TABLE_HAS_THREE_COLUMNS				
CHARACTER_DATA				
MOVIES				
PERSONSS				
DIRECTOR				

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

(ii)

Home > SQL > **SQL Commands**

☒ Autocommit Display ▼

SELECT* FROM MOVIES

Results	Explain	Describe	Saved SQL	History
MOVIESID	MOVIES_NAME	RAITINGS	SL_NO	
100	October	3	1	
101	Phir Hera Pheri	5	1	
102	Fuckrey	4	1	
103	Shawshank Redumtion	5	1	
104	Fuckrey 2	4	1	
105	Kal hona ho	4	1	
106	OMG	5	1	
107	Sadak 2	1	1	
108	Delhi Belli	2	1	
109	White Tiger	4	1	
110	Kabir Singh	5	1	
111	Avengers	5	1	
112	Avengers-Infinity War	5	1	
113	Rockstar	3	1	
114	Sholay	5	1	
115	Inception	5	1	
116	Housefull 4	2	1	
117	Star Wars	4	1	
118	Godzilla	4	1	
119	Bazzar	4	1	

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

(iii)

Home > SQL > SQL Commands

☒ Autocommit Display 20 ▼

```
SELECT MoviesID FROM MOVIES
```

Results	Explain	Describe	Saved SQL	History
MOVIESID				
100				
101				
102				
103				
104				
105				
106				
107				
108				
109				
110				
111				
112				
113				
114				
115				
116				
117				
118				
119				

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

(iv)

Home > SQL > SQL Commands

☒ Autocommit Display 20 ▼

```
SELECT* FROM MOVIES  
WHERE MoviesID =108
```

Results	Explain	Describe	Saved SQL	History
MOVIESID	MOVIES_NAME	RAITINGS	SL_NO	
108	Delhi Belli	2	1	

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

(v)

Home > SQL > SQL Commands

☒ Autocommit Display 20 ▼

SELECT * FROM all_users;

Results	Explain	Describe	Saved SQL	History
USERNAME	USER_ID	CREATED		
AMAN	36	28-JAN-21		
FLows_020100	35	07-FEB-06		
FLows_FILES	34	07-FEB-06		
HR	33	07-FEB-06		
MDSYS	32	07-FEB-06		
ANONYMOUS	28	07-FEB-06		
XDB	27	07-FEB-06		
CTXSYS	25	07-FEB-06		
DBSNMP	23	07-FEB-06		
TSMSYS	20	07-FEB-06		
DIP	18	07-FEB-06		
OUTLN	11	07-FEB-06		
SYSTEM	5	07-FEB-06		
SYS	0	07-FEB-06		

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

9. Show how Foreign key constraint effects Updating a dependent table when value is not existing and in Base table where the value is referred and you want to update it.

(i) Adding in base table

```
Home > SQL > SQL Commands
☒ Autocommit Display 20
ALTER TABLE MOVIES
ADD(
    Raitings int NOT NULL
)
```

```
Results Explain Describe Saved SQL History
Table altered.
0.02 seconds
```

(ii) Adding new column to child table

```
Home > SQL > SQL Commands
☒ Autocommit Display 20
ALTER TABLE DIRECTOR
ADD(
    Raitings int |
)
```

```
Results Explain Describe Saved SQL History
Table altered.
0.00 seconds
```

(iii) **Deletion in base table**

☒ Autocommit Display 20 ▼

DELETE FROM MOVIES
WHERE MoviesID = 100

Results Explain Describe Saved SQL History

ORA-02292: integrity constraint (AWAN.SYS_0004037) violated - child record found

0.02 seconds

(iv) **Deleting in child table**

Home > SQL > SQL Commands

☒ Autocommit Display 20 ▼

DELETE FROM DIRECTOR
WHERE MoviesID = 100

Results Explain Describe Saved SQL History

1 row(s) deleted.

0.02 seconds