Exp No: 2 Name: LALKRISHNA. S

Date: 10-08-2017 Roll No: 38

AIM:

Performing Alter and DML commands like Insertion, Deletion, Modifying, and Updating records based on conditions.

Create and the following tables:

album(artist id: integer, album id: integer, album_name: string)

artist(artist id:integer, artist_name:string)

played(<u>artist id: integer, album id: integer, track id: integer, played: timestamp</u>)

track(track id: integer, track_name: string, artist id: integer, album id: integer,

time:decimal(5,2))

Alter

- a) Change the name of column 'played' in played table into 'last_played'.
- b) Reduce size of the column artist name in the table artist.
- c) Add an extra column 'formed:year' into artist table.
- d) Drop the newly added column 'formed' from artist.

Insert

e) Insert values into each of the first three tables.[Before insertion, undo all alterations done in the table structure]

Note: Values to be inserted is attached with this mail as a text file.

Update

- f) Change the artist names to uppercase in artist table.
- g) Set the 3 most recent played dates and times to the current date and time
- h) Set all played dates and times to the current date and time.
- i) In the table 'album' there are two album_names 'Substance (Disc 2)' and 'Substance 1987 (Disc 1)'. Add the missing year value to the first name using update command.

Delete

- j) Delete from played table, the details of 2 recently played tracks.
- k) Delete the details of artist with name 'Miles Davis'.

CREATE

create table ARTIST_38(artist_id int primary key,artist_name
varchar(20));

Field	Туре	Null	Key	Default	Extra
artist_id	int(11) varchar(20)	l NO	PRI	NULL	

create table ALBUM_38(artist_id int,album_id int,album_name
varchar(20),primary key(artist_id,album_id),foreign key(artist_id)
references ARTIST 38(artist id));

Field	Type	· · · · · · · · · · · · · · · · · · ·	Default Extra
artist_id album_id album_name	int(11) int(11) varchar(20)	NO	

create table TRACK_38(track_id int,track_name varchar(20),artist_id
int,album_id int,time decimal(5,2),primary
key(track_id,artist_id,album_id),foreign key(artist_id,album_id)
references ALBUM 38(artist id,album id));

Field			_	Default 	
track_id track_name artist_id album_id time	•	NO YES NO NO	PRI	0 NULL 0	

create table PLAYED_38(artist_id int,album_id int,track_id
int,played timestamp,primary
key(artist id,album id,track id,played));

Field	+ Type +	+ Null +	Key	Default	Extra
album_id	int(11)	NO NO	PRI PRI	0 0	 - - on update CURRENT_TIMESTAMP

ALTER

alter table PLAYED 38 change played last played timestamp;

Field	Type		_	Default	+
album_id track_id	int(11) int(11) int(11)	NO	PRI PRI PRI	0 0	

```
alter table ARTIST_38 modify artist_name varchar(15);
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| artist name | varchar(15) | YES | | NULL
                                  +----+
alter table ARTIST 38 add formed year;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| artist name | varchar(15) | YES | NULL
                                   | formed | year(4) | YES |
                           | NULL
+----+
alter table ARTIST 38 drop formed;
INSERT
insert into ARTIST 38 values(1, "New Order");
insert into ARTIST 38 values (2, "Nick Came & The Bad Seeds");
insert into ARTIST_38 values(3,"Miles Davis")
+----+
| artist id | artist name
+----+
      1 | New Order
      2 | Nick Came & The Bad |
      3 | Miles Davis
+----+
insert into ALBUM 38 values(1,1,"Substance (Disc 2)");
insert into ALBUM 38 values(1,2,"Power,Corruption & Lies");
insert into ALBUM 38 values (1, 3, "Substance 1987 (Disc 1)");
insert into ALBUM 38 values(3,4,"In A Silent Way");
+----+
| artist id | album id | album name
      1 | Substance (Disc 2) |
      1 |
             2 | Power, Corruption & L |
      1 | 2 | Fower, Corruption & 2 | 1 | 3 | Substance 1987 (Disc | 3 | 4 | In A Silent Way |
+----+
INSERT INTO PLAYED_38 VALUES(1,3,0,"2006-08-14 10:21:03");
INSERT INTO PLAYED 38 VALUES(1,3,1,"2006-08-14 10:25:22");
INSERT INTO PLAYED 38 VALUES(1,3,2,"2006-08-14 10:30:25");
INSERT INTO PLAYED 38 VALUES(1,3,3,"2006-08-14 10:36:54");
INSERT INTO PLAYED 38 VALUES (1, 3, 4, "2006-08-14 10:41:43");
```

+	+ album_id	+ track_id	+ played	+
+	3 3 3	1 1 2 1 3	2006-08-14 10:21:03 2006-08-14 10:25:22 2006-08-14 10:30:25 2006-08-14 10:36:54 2006-08-14 10:41:43	+

UPDATE

update ARTIST_38 SET artist_name = UPPER(ARTIST_NAME);

artist_id	 -+:	artist_name	
2	İ	NEW ORDER NICK CAME & THE BAD MILES DAVIS	 - -

UPDATE PLAYED_38 SET played=sysdate() ORDER BY played LIMIT 3;

artist_id	_	track_id	
1 1 1 1 1	3 3 3	0 1 2 3	2017-08-10 10:37:27 2017-08-10 10:37:27 2017-08-10 10:37:27 2006-08-14 10:36:54 2006-08-14 10:41:43

UPDATE PLAYED 38 SET played=sysdate();

+	artist_id	++ album_id 	track_id	+ · 	played	-+ -
+	1 1 1 1	3	1 2	 	2017-08-10 10:40:06 2017-08-10 10:40:06 2017-08-10 10:40:06 2017-08-10 10:40:06	
	1	3	4		2017-08-10 10:40:06	

UPDATE ALBUM_38 SET album_name = "Substance 1987(Disc 2)" where
album name="Substance (Disc 2)";

DELETE

DELETE FROM PLAYED 38 ORDER BY played LIMIT 2;

artist_id	'	'	played	+ _
1 1 1	3 3 3	3	2017-08-10 10:40:06 2017-08-10 10:40:06 2017-08-10 10:40:06	İ

DELETE FROM ARTIST_38 WHERE artist_name="Miles Davis"; ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`MUSIC_38`.`ALBUM_38`, CONSTRAINT `ALBUM_38_ibfk_1` FOREIGN KEY (`artist_id`) REFERENCES `ARTIST_38` (`artist_id`))