

```

1
2 SQL>REM: ASSIGNMENT 1
3 SQL>
4 SQL> prompt DROPPING THE PREVIOUSLY CREATED TABLES
5 DROPPING THE PREVIOUSLY CREATED TABLES
6 SQL>
7 SQL> DROP TABLE sungby;
8
9 Table dropped.
10
11 SQL> DROP TABLE song;
12
13 Table dropped.
14
15 SQL> DROP TABLE artist;
16
17 Table dropped.
18
19 SQL> DROP TABLE album;
20
21 Table dropped.
22
23 SQL> DROP TABLE studio;
24
25 Table dropped.
26
27 SQL> DROP TABLE musician;
28
29 Table dropped.
30
31 SQL>
32 SQL> prompt CREATING THE TABLES
33 CREATING THE TABLES
34 SQL>
35 SQL> CREATE TABLE musician(
36     2 mid VARCHAR(6) PRIMARY KEY,
37     3 mname VARCHAR(20),
38     4 birthplace VARCHAR(25));
39
40 Table created.
41
42 SQL>
43 SQL> DESC musician;
44 Name ..... Null? ..... Type
45 -----
46 MID ..... NOT NULL VARCHAR2(6)
47 MNAME ..... VARCHAR2(20)
48 BIRTHPLACE ..... VARCHAR2(25)
49
50 SQL>
51 SQL> CREATE TABLE studio(

```

```

52  ..2.. stname VARCHAR(20) PRIMARY KEY,
53  ..3.. staddr VARCHAR(25),
54  ..4.. stdphn NUMBER(14));
55
56 Table created.
57
58 SQL>
59 SQL> DESC studio;
60  Name ..... Null? ..... Type
61  -----
62  STNAME ..... NOT NULL VARCHAR2(20)
63  STADDR ..... VARCHAR2(25)
64  STDPHN ..... NUMBER(14)
65
66 SQL>
67 SQL> CREATE TABLE album(
68  ..2.. alname VARCHAR(20),
69  ..3.. alid VARCHAR(6) PRIMARY KEY,
70  ..4.. release_yr DATE CHECK(EXTRACT(year from release_yr) >= 1945),
71  ..5.. no_of_tracks NUMBER(3) NOT NULL,
72  ..6.. stname VARCHAR(20) REFERENCES studio(stname),
73  ..7.. genre VARCHAR(4) CHECK(genre IN('CAR', 'DIV', 'MOV', 'POP')),
74  ..8.. mid VARCHAR(6) REFERENCES musician(mid));
75
76 Table created.
77
78 SQL>
79 SQL> DESC album;
80  Name ..... Null? ..... Type
81  -----
82  ALNAME ..... VARCHAR2(20)
83  ALID ..... NOT NULL VARCHAR2(6)
84  RELEASE_YR ..... DATE
85  NO_OF_TRACKS ..... NOT NULL NUMBER(3)
86  STNAME ..... VARCHAR2(20)
87  GENRE ..... VARCHAR2(4)
88  MID ..... VARCHAR2(6)
89
90 SQL>
91 SQL> CREATE TABLE artist(
92  ..2.. arid VARCHAR(6) PRIMARY KEY,
93  ..3.. arname VARCHAR(20),
94  ..4.. CONSTRAINT uniq_aname UNIQUE(arname));
95
96 Table created.
97
98 SQL>
99 SQL> DESC artist;
100  Name ..... Null? ..... Type
101  -----
102  ARID ..... NOT NULL VARCHAR2(6)

```

103 .ARNAME VARCHAR2 (20)

104

105 SQL>

106 SQL> CREATE TABLE song(

107 .2 .alid VARCHAR(6),

108 .3 .track_no VARCHAR(6),

109 .4 .sname VARCHAR(20),

110 .5 .length NUMBER(3),

111 .6 .genre VARCHAR(4),

112 .7 .PRIMARY KEY(alid, track_no),

113 .8 .CONSTRAINT fk_alid FOREIGN KEY(alid) REFERENCES album(alid),

114 .9 .CONSTRAINT chk_genre CHECK(genre IN('PHI', 'REL', 'LOV', 'DEV', 'PAT')),

115 .10 .CONSTRAINT chk_len CHECK(length>7 OR genre<>'PAT'));

116

117 Table created.

118

119 SQL>

120 SQL> DESC song;

121 .Name Null? Type

122 -----

123 .ALID NOT NULL VARCHAR2 (6)

124 .TRACK_NO NOT NULL VARCHAR2 (6)

125 .SNAME VARCHAR2 (20)

126 .LENGTH NUMBER (3)

127 .GENRE VARCHAR2 (4)

128

129 SQL>

130 SQL> CREATE TABLE sungby(

131 .2 .alid VARCHAR(6),

132 .3 .track_no VARCHAR(6),

133 .4 .arid VARCHAR(6) REFERENCES artist(arid),

134 .5 .recording_date DATE,

135 .6 .PRIMARY KEY(alid, track_no, arid),

136 .7 .CONSTRAINT fk_sungby FOREIGN KEY(alid, track_no) REFERENCES song(alid, track_no));

137

138 Table created.

139

140 SQL>

141 SQL> DESC sungby;

142 .Name Null? Type

143 -----

144 .ALID NOT NULL VARCHAR2 (6)

145 .TRACK_NO NOT NULL VARCHAR2 (6)

146 .ARID NOT NULL VARCHAR2 (6)

147 .RECORDING_DATE DATE

148

149 SQL>

150 SQL> prompt DESCRIBING THE TABLES

151 DESCRIBING THE TABLES

152 SQL>

153 SQL> DESC musician;

```

154  Name ..... Null? ..... Type
155  -----
156  MID ..... NOT NULL VARCHAR2 (6)
157  MNAME ..... VARCHAR2 (20)
158  BIRTHPLACE ..... VARCHAR2 (25)
159
160  SQL> DESC studio;
161  Name ..... Null? ..... Type
162  -----
163  STNAME ..... NOT NULL VARCHAR2 (20)
164  STADDR ..... VARCHAR2 (25)
165  STDPHN ..... NUMBER (14)
166
167  SQL> DESC album;
168  Name ..... Null? ..... Type
169  -----
170  ALNAME ..... VARCHAR2 (20)
171  ALID ..... NOT NULL VARCHAR2 (6)
172  RELEASE_YR ..... DATE
173  NO_OF_TRACKS ..... NOT NULL NUMBER (3)
174  STNAME ..... VARCHAR2 (20)
175  GENRE ..... VARCHAR2 (4)
176  MID ..... VARCHAR2 (6)
177
178  SQL> DESC artist;
179  Name ..... Null? ..... Type
180  -----
181  ARID ..... NOT NULL VARCHAR2 (6)
182  ARNAME ..... VARCHAR2 (20)
183
184  SQL> DESC song;
185  Name ..... Null? ..... Type
186  -----
187  ALID ..... NOT NULL VARCHAR2 (6)
188  TRACK_NO ..... NOT NULL VARCHAR2 (6)
189  SNAME ..... VARCHAR2 (20)
190  LENGTH ..... NUMBER (3)
191  GENRE ..... VARCHAR2 (4)
192
193  SQL> DESC sungby;
194  Name ..... Null? ..... Type
195  -----
196  ALID ..... NOT NULL VARCHAR2 (6)
197  TRACK_NO ..... NOT NULL VARCHAR2 (6)
198  ARID ..... NOT NULL VARCHAR2 (6)
199  RECORDING_DATE ..... DATE
200
201  SQL>
202  SQL> prompt INSERTING VALUES INTO THE TABLES
203  INSERTING VALUES INTO THE TABLES
204  SQL>

```

```
205 SQL> INSERT INTO musician VALUES ('m03', 'calvin', 'usa');
206
207 1 row created.
208
209 SQL> INSERT INTO musician VALUES ('m01', 'miguel', 'mexico');
210
211 1 row created.
212
213 SQL> INSERT INTO musician VALUES ('m02', 'elaine', 'france');
214
215 1 row created.
216
217 SQL>
218 SQL> INSERT INTO studio VALUES ('big machine', '122 pinwheel road, texas', 7445578787);
219
220 1 row created.
221
222 SQL> INSERT INTO studio VALUES ('yg', 'seoul circle, s.korea', 4445578787);
223
224 1 row created.
225
226 SQL> INSERT INTO studio VALUES ('sm', 'shibuya, tokyo, japan', 3445578787);
227
228 1 row created.
229
230 SQL>
231 SQL> INSERT INTO album VALUES ('square up', 'al01', '27-jun-2019', 4, 'yg', 'POP', 'm03');
232
233 1 row created.
234
235 SQL> INSERT INTO album VALUES ('lionheart', 'al11', '23-may-2017', 10, 'sm', 'POP', 'm02');
236
237 1 row created.
238
239 SQL> INSERT INTO album VALUES ('red', 'al04', '12-nov-2012', 13, 'big machine', 'MOV', 'm03');
240
241 1 row created.
242
243 SQL> INSERT INTO album VALUES ('1989', 'al05', '2-oct-2015', 13, 'big machine', 'POP', 'm01');
244
245 1 row created.
246
247 SQL>
248 SQL> INSERT INTO artist VALUES ('a01', 'taylor');
249
250 1 row created.
251
252 SQL> INSERT INTO artist VALUES ('a099', 'jennie');
253
254 1 row created.
255
```

```

256 SQL> INSERT INTO artist VALUES('a07', 'yuri');
257
258 1 row created.
259
260 SQL>
261 SQL> INSERT INTO song VALUES('a104', 't01', '22', 212, 'PHI');
262
263 1 row created.
264
265 SQL> INSERT INTO song VALUES('a105', 't01', 'blank space', 221, 'LOV');
266
267 1 row created.
268
269 SQL> INSERT INTO song VALUES('a104', 't04', 'safe', 271, 'PAT');
270
271 1 row created.
272
273 SQL>
274 SQL> INSERT INTO sungby VALUES('a105', 't01', 'a01', '27-sep-2014');
275
276 1 row created.
277
278 SQL> INSERT INTO sungby VALUES('a104', 't04', 'a01', '23-aug-2013');
279
280 1 row created.
281
282 SQL> INSERT INTO sungby VALUES('a104', 't01', 'a01', '9-may-2009');
283
284 1 row created.
285
286 SQL>
287 SQL> prompt DISPLAYING THE TABLE CONTENTS
288 DISPLAYING THE TABLE CONTENTS
289 SQL>
290 SQL> SELECT * FROM musician;
291
292 MID      MNAME      BIRTHPLACE
293 -----
294 m03      calvin      usa
295 m01      miguel      mexico
296 m02      elaine      france
297
298 SQL> SELECT * FROM studio;
299
300 STNAME      STADDR      STDPHN
301 -----
302 big machine      122 pinwheel road, texas      7445578787
303 yg      seoul circle, s.korea      4445578787
304 sm      shibuya, tokyo, japan      3445578787
305
306 SQL> SELECT * FROM album;

```

```

307
308 ALNAME ..... ALID ..... RELEASE_Y NO_OF_TRACKS STNAME ..... GENR MID .....
309 -----
310 square up ..... al01 ..... 27-JUN-19 ..... 4 yg ..... POP m03 .....
311 lionheart ..... al11 ..... 23-MAY-17 ..... 10 sm ..... POP m02 .....
312 red ..... al04 ..... 12-NOV-12 ..... 13 big machine ..... MOV m03 .....
313 1989 ..... al05 ..... 02-OCT-15 ..... 13 big machine ..... POP m01 .....
314
315 SQL> SELECT * FROM artist;
316
317 ARID ..... ARNAME .....
318 -----
319 a01 ..... taylor .....
320 a099 ..... jennie .....
321 a07 ..... yuri .....
322
323 SQL> SELECT * FROM song;
324
325 ALID ..... TRACK_ SNAME ..... LENGTH GENR .....
326 -----
327 al04 ..... t01 ..... 22 ..... 212 PHI .....
328 al05 ..... t01 ..... blank space ..... 221 LOV .....
329 al04 ..... t04 ..... safe ..... 271 PAT .....
330
331 SQL> SELECT * FROM sungby;
332
333 ALID ..... TRACK_ ARID ..... RECORDING .....
334 -----
335 al05 ..... t01 ..... a01 ..... 27-SEP-14 .....
336 al04 ..... t04 ..... a01 ..... 23-AUG-13 .....
337 al04 ..... t01 ..... a01 ..... 09-MAY-09 .....
338
339 SQL>
340 SQL> prompt 1)The genre for Album can be generally categorized as CAR for Carnatic, DIV for Divine, MOV for Movies, POP for
Pop songs.
341 1)The genre for Album can be generally categorized as CAR for Carnatic, DIV for Divine, MOV for Movies, POP for Pop songs.
342 SQL>
343 SQL> SELECT * FROM album;
344
345 ALNAME ..... ALID ..... RELEASE_Y NO_OF_TRACKS STNAME ..... GENR MID .....
346 -----
347 square up ..... al01 ..... 27-JUN-19 ..... 4 yg ..... POP m03 .....
348 lionheart ..... al11 ..... 23-MAY-17 ..... 10 sm ..... POP m02 .....
349 red ..... al04 ..... 12-NOV-12 ..... 13 big machine ..... MOV m03 .....
350 1989 ..... al05 ..... 02-OCT-15 ..... 13 big machine ..... POP m01 .....
351
352 SQL> INSERT INTO album VALUES('square up', 'al01', '01-dec-2019', 4, 'yg', 'RAP', 'm03');
353 INSERT INTO album VALUES('square up', 'al01', '01-dec-2019', 4, 'yg', 'RAP', 'm03')
354 *
355 ERROR at line 1:
356 ORA-02290: check constraint (SYS.SYS_C0011865) violated

```

```

357
358
359 SQL>
360 SQL> prompt 2)The genre for Song can be PHI for philosophical, REL for relationship, LOV for duet, DEV for devotional, PAT
for patriotic type of songs.
361 2)The genre for Song can be PHI for philosophical, REL for relationship, LOV for duet, DEV for devotional, PAT for patriotic
type of songs.
362 SQL>
363 SQL> SELECT * FROM song;
364
365 ALID TRACK_ SNAME LENGTH GENR
366 -----
367 al04 t01 22 212 PHI
368 al05 t01 blank space 221 LOV
369 al04 t04 safe 271 PAT
370
371 SQL> INSERT INTO song VALUES('al01','t04','solo',233,'JAZZ');
372 INSERT INTO song VALUES('al01','t04','solo',233,'JAZZ')
373 *
374 ERROR at line 1:
375 ORA-02290: check constraint (SYS.CHK_GENRE) violated
376
377
378 SQL>
379 SQL> prompt 3)The artist ID, album ID, musician ID, and track number, studio name are used to retrieve tuple(s) individually
from respective relations.
380 3)The artist ID, album ID, musician ID, and track number, studio name are used to retrieve tuple(s) individually from
respective relations.
381 SQL>
382 SQL> SELECT * FROM artist;
383
384 ARID ARNAME
385 -----
386 a01 taylor
387 a099 jennie
388 a07 yuri
389
390 SQL> INSERT INTO artist VALUES('a01','mark');
391 INSERT INTO artist VALUES('a01','mark')
392 *
393 ERROR at line 1:
394 ORA-00001: unique constraint (SYS.SYS_C0011869) violated
395
396
397 SQL> SELECT * FROM album;
398
399 ALNAME ALID RELEASE_Y NO_OF_TRACKS STNAME GENR MID
400 -----
401 square up al01 27-JUN-19 4 yg POP m03
402 lionheart al11 23-MAY-17 10 sm POP m02
403 red al04 12-NOV-12 13 big machine MOV m03

```



```

404 1989 .....al05...02-OCT-15.....13 big machine.....POP...m01.....
405
406 SQL> INSERT INTO album VALUES('bigbang', 'a101', 2019, 4, 'yg', 'POP', 'm03');
407 INSERT INTO album VALUES('bigbang', 'a101', 2019, 4, 'yg', 'POP', 'm03')
408 .....*
409 ERROR at line 1:
410 ORA-00932: inconsistent datatypes: expected DATE got NUMBER
411
412
413 SQL> SELECT * FROM musician;
414
415 MID .....MNAME .....BIRTHPLACE .....
416 -----
417 m03 .....calvin .....usa .....
418 m01 .....miguel .....mexico .....
419 m02 .....elaine .....france .....
420
421 SQL> INSERT INTO musician VALUES('m03', 'canary', 'usa');
422 INSERT INTO musician VALUES('m03', 'canary', 'usa')
423 *
424 ERROR at line 1:
425 ORA-00001: unique constraint (SYS.SYS_C0011861) violated
426
427
428 SQL> SELECT * FROM sungby;
429
430 ALID .....TRACK_.....ARID .....RECORDING .....
431 -----
432 al05 .....t01 .....a01 .....27-SEP-14 .....
433 al04 .....t04 .....a01 .....23-AUG-13 .....
434 al04 .....t01 .....a01 .....09-MAY-09 .....
435
436 SQL> INSERT INTO sungby VALUES('al04', 't04', 'a01', '2-dec-2018');
437 INSERT INTO sungby VALUES('al04', 't04', 'a01', '2-dec-2018')
438 *
439 ERROR at line 1:
440 ORA-00001: unique constraint (SYS.SYS_C0011875) violated
441
442
443 SQL> SELECT * FROM studio;
444
445 STNAME .....STADDR .....STDPHN .....
446 -----
447 big machine .....122 pinwheel road, texas .....7445578787 .....
448 yg .....seoul circle, s.korea .....4445578787 .....
449 sm .....shibuya, tokyo, japan .....3445578787 .....
450
451 SQL> INSERT INTO studio VALUES('sm', 'big ben, london, uk', 3445578787);
452 INSERT INTO studio VALUES('sm', 'big ben, london, uk', 3445578787)
453 *
454 ERROR at line 1:

```

```

455 ORA-00001: unique constraint (SYS.SYS_C0011862) violated
456
457
458 SQL>
459 SQL> prompt 6)It was learnt that the artists do not have the same name.
460 6)It was learnt that the artists do not have the same name.
461 SQL>
462 SQL> SELECT * FROM artist;
463
464 ARID ARNAME
465 -----
466 a01 taylor
467 a099 jennie
468 a07 yuri
469
470 SQL> INSERT INTO artist VALUES('a23', 'taylor');
471 INSERT INTO artist VALUES('a23', 'taylor')
472 *
473 ERROR at line 1:
474 ORA-00001: unique constraint (SYS.UNIQ_ANAME) violated
475
476
477 SQL>
478 SQL> prompt 7)The number of tracks in an album must always be recorded.
479 7)The number of tracks in an album must always be recorded.
480 SQL>
481 SQL> SELECT * FROM album;
482
483 ALNAME ALID RELEASE_Y NO_OF_TRACKS STNAME GENR MID
484 -----
485 square up al01 27-JUN-19 4 yg POP m03
486 lionheart al11 23-MAY-17 10 sm POP m02
487 red al04 12-NOV-12 13 big machine MOV m03
488 1989 al05 02-OCT-15 13 big machine POP m01
489
490 SQL> INSERT INTO album VALUES('square up', 'al01', '01-dec-2019', NULL, 'yg', 'POP', 'm03');
491 INSERT INTO album VALUES('square up', 'al01', '01-dec-2019', NULL, 'yg', 'POP', 'm03')
492 *
493 ERROR at line 1:
494 ORA-01400: cannot insert NULL into ("SYS"."ALBUM"."NO_OF_TRACKS")
495
496
497 SQL>
498 SQL> prompt 8)The length of each song must be greater than 7 for PAT songs.
499 8)The length of each song must be greater than 7 for PAT songs.
500 SQL>
501 SQL> SELECT * FROM song;
502
503 ALID TRACK_SNAME LENGTH GENR
504 -----
505 al04 t01 22 212 PHI

```

```

506 al05...t01...blank space .....221 LOV.....
507 al04...t04...safe .....271 PAT.....
508
509 SQL> INSERT INTO song VALUES('al04','t04','safe',5,'PAT');
510 INSERT INTO song VALUES('al04','t04','safe',5,'PAT')
511 *
512 ERROR at line 1:
513 ORA-02290: check constraint (SYS.CHK_LEN) violated
514
515
516 SQL>
517 SQL> prompt 9)The year of release of an album can not be earlier than 1945.
518 9)The year of release of an album can not be earlier than 1945.
519 SQL>
520 SQL> SELECT * FROM album;
521
522 ALNAME .....ALID...RELEASE_Y NO_OF_TRACKS STNAME .....GENR MID .....
523 -----
524 square up .....al01...27-JUN-19 .....4 yg .....POP m03 .....
525 lionheart .....al11...23-MAY-17 .....10 sm .....POP m02 .....
526 red .....al04...12-NOV-12 .....13 big machine .....MOV m03 .....
527 1989 .....al05...02-OCT-15 .....13 big machine .....POP m01 .....
528
529 SQL> INSERT INTO album VALUES('green','al05','8-feb-1922',13,'big machine','POP','m01');
530 INSERT INTO album VALUES('green','al05','8-feb-1922',13,'big machine','POP','m01')
531 *
532 ERROR at line 1:
533 ORA-02290: check constraint (SYS.SYS_C0011864) violated
534
535
536 SQL>
537 SQL> prompt 10)It is necessary to represent the gender of an artist in the table.
538 10)It is necessary to represent the gender of an artist in the table.
539 SQL>
540 SQL> DESC artist;
541 Name .....Null?.....Type
542 -----
543 ARID .....NOT NULL VARCHAR2 (6)
544 ARNAME .....VARCHAR2 (20)
545
546 SQL> ALTER TABLE artist ADD gender VARCHAR(20);
547
548 Table altered.
549
550 SQL> DESC artist;
551 Name .....Null?.....Type
552 -----
553 ARID .....NOT NULL VARCHAR2 (6)
554 ARNAME .....VARCHAR2 (20)
555 GENDER .....VARCHAR2 (20)
556

```

```

557 SQL>
558 SQL> prompt 12)The phone number of each studio should be different.
559 12)The phone number of each studio should be different.
560 SQL>
561 SQL> ALTER TABLE studio ADD CONSTRAINT uniq_phn UNIQUE(stdphn);
562
563 Table altered.
564
565 SQL> DESC studio;
566 Name Null? Type
567 -----
568 STNAME NOT NULL VARCHAR2(20)
569 STADDR VARCHAR2(25)
570 STDPHN NUMBER(14)
571
572 SQL> SELECT * FROM studio;
573
574 STNAME STADDR STDPHN
575 -----
576 big machine 122 pinwheel road, texas 7445578787
577 yg seoul circle, s.korea 4445578787
578 sm shibuya, tokyo, japan 3445578787
579
580 SQL> INSERT INTO studio VALUES('sm', 'shibuya, tokyo, japan', 4445578787);
581 INSERT INTO studio VALUES('sm', 'shibuya, tokyo, japan', 4445578787)
582 *
583 ERROR at line 1:
584 ORA-00001: unique constraint (SYS.SYS_C0011862) violated
585
586
587 SQL>
588 SQL> prompt 13)An artist who sings a song for a particular track of an album can not be recorded without the record_date.
589 13)An artist who sings a song for a particular track of an album can not be recorded without the record_date.
590 SQL>
591 SQL> ALTER TABLE sungby MODIFY recording_date DATE NOT NULL;
592
593 Table altered.
594
595 SQL> DESC sungby;
596 Name Null? Type
597 -----
598 ALID NOT NULL VARCHAR2(6)
599 TRACK_NO NOT NULL VARCHAR2(6)
600 ARID NOT NULL VARCHAR2(6)
601 RECORDING_DATE NOT NULL DATE
602
603 SQL> SELECT * FROM sungby;
604
605 ALID TRACK_ ARID RECORDING
606 -----
607 al05 t01 a01 27-SEP-14

```

```

608  al04...t04...a01...23-AUG-13
609  al04...t01...a01...09-MAY-09
610
611  SQL> INSERT INTO sungby VALUES('al04', 't01', 'a01', NULL);
612  INSERT INTO sungby VALUES('al04', 't01', 'a01', NULL)
613  .....*
614  ERROR at line 1:
615  ORA-01400: cannot insert NULL into ("SYS"."SUNGBY"."RECORDING_DATE")
616
617
618  SQL>
619  SQL> prompt 14)It was decided to include the genre NAT for nature songs.
620  14)It was decided to include the genre NAT for nature songs.
621  SQL>
622  SQL> SELECT * FROM song;
623
624  ALID   TRACK_ SNAME   ..... LENGTH GENR .....
625  -----
626  al04   t01     22      ..... 212 PHI .....
627  al05   t01     blank space ..... 221 LOV .....
628  al04   t04     safe ..... 271 PAT .....
629
630  SQL> ALTER TABLE song DROP CONSTRAINT chk_genre;
631
632  Table altered.
633
634  SQL> ALTER TABLE song ADD CONSTRAINT chk_genre CHECK(genre IN('PHI', 'REL', 'LOV', 'DEV', 'PAT', 'NAT'));
635
636  Table altered.
637
638  SQL> INSERT INTO song VALUES('al01', 't04', 'solo', 233, 'NAT');
639
640  1 row created.
641
642  SQL> SELECT * FROM song;
643
644  ALID   TRACK_ SNAME   ..... LENGTH GENR .....
645  -----
646  al04   t01     22      ..... 212 PHI .....
647  al05   t01     blank space ..... 221 LOV .....
648  al04   t04     safe ..... 271 PAT .....
649  al01   t04     solo ..... 233 NAT .....
650
651  SQL>
652  SQL> prompt 15)Due to typo-error, there may be a possibility of false information.
653  15)Due to typo-error, there may be a possibility of false information.
654  SQL> REM:Hence while deleting the song information, make sure that all the corresponding information are also deleted.
655  SQL>
656  SQL> ALTER TABLE sungby DROP CONSTRAINT fk_sungby;
657
658  Table altered.

```

```

659
660 SQL> ALTER TABLE sungby ADD CONSTRAINT fk_sungby FOREIGN KEY(alid, track_no) REFERENCES song(alid, track_no) ON DELETE CASCADE;
661
662 Table altered.
663
664 SQL>
665 SQL> SELECT * FROM song;
666
667 ALID   TRACK_  SNAME   LENGTH  GENR
668 -----
669 al04   t01      22      212    PHI
670 al05   t01      blank space  221    LOV
671 al04   t04      safe     271    PAT
672 al01   t04      solo     233    NAT
673
674 SQL> SELECT * FROM sungby;
675
676 ALID   TRACK_  ARID   RECORDING
677 -----
678 al05   t01      a01    27-SEP-14
679 al04   t04      a01    23-AUG-13
680 al04   t01      a01    09-MAY-09
681
682 SQL> DELETE FROM song WHERE sname='safe';
683
684 1 row deleted.
685
686 SQL> SELECT * FROM song;
687
688 ALID   TRACK_  SNAME   LENGTH  GENR
689 -----
690 al04   t01      22      212    PHI
691 al05   t01      blank space  221    LOV
692 al01   t04      solo     233    NAT
693
694 SQL> SELECT * FROM sungby;
695
696 ALID   TRACK_  ARID   RECORDING
697 -----
698 al05   t01      a01    27-SEP-14
699 al04   t01      a01    09-MAY-09
700
701 SQL>
702 SQL> SELECT * FROM musician;
703
704 MID   MNAME   BIRTHPLACE
705 -----
706 m03   calvin   usa
707 m01   miguel   mexico
708 m02   elaine   france
709

```

```

710 SQL> SELECT * FROM studio;
711
712 STNAME ..... STADDR ..... STDPHN .....
713 -----
714 big machine ..... 122 pinwheel road, texas ..... 7445578787 .....
715 yg ..... seoul circle, s.korea ..... 4445578787 .....
716 sm ..... shibuya, tokyo, japan ..... 3445578787 .....
717
718 SQL> SELECT * FROM album;
719
720 ALNAME ..... ALID ..... RELEASE_Y ..... NO_OF_TRACKS ..... STNAME ..... GENR ..... MID .....
721 -----
722 square up ..... al01 ..... 27-JUN-19 ..... 4 ..... yg ..... POP ..... m03 .....
723 lionheart ..... al11 ..... 23-MAY-17 ..... 10 ..... sm ..... POP ..... m02 .....
724 red ..... al04 ..... 12-NOV-12 ..... 13 ..... big machine ..... MOV ..... m03 .....
725 1989 ..... al05 ..... 02-OCT-15 ..... 13 ..... big machine ..... POP ..... m01 .....
726
727 SQL> SELECT * FROM artist;
728
729 ARID ..... ARNAME ..... GENDER .....
730 -----
731 a01 ..... taylor .....
732 a099 ..... jennie .....
733 a07 ..... yuri .....
734
735 SQL> SELECT * FROM song;
736
737 ALID ..... TRACK_ ..... SNAME ..... LENGTH ..... GENR .....
738 -----
739 al04 ..... t01 ..... 22 ..... 212 ..... PHI .....
740 al05 ..... t01 ..... blank space ..... 221 ..... LOV .....
741 al01 ..... t04 ..... solo ..... 233 ..... NAT .....
742
743 SQL> SELECT * FROM sungby;
744
745 ALID ..... TRACK_ ..... ARID ..... RECORDING .....
746 -----
747 al05 ..... t01 ..... a01 ..... 27-SEP-14 .....
748 al04 ..... t01 ..... a01 ..... 09-MAY-09 .....
749
750 SQL> spool off
751

```