Assignment 2A Feedback

```
SQL> --========================= START RUN ====================================---
SQL> -- Running tsa_schema_insert.sql
SQL> set echo off
SQL> ------------- Task 1 Create Tables ---------------------------------------
SQL> @T1-tsa-schema.sql
SQL> --*****PLEASE ENTER YOUR DETAILS BELOW*****
SQL> --T1-tsa-schema.sql
SQL>
SQL> --Student ID:33429472
SQL> --Student Name:Ziqi Pei
SQL> --Unit Code:FIT9132
SQL> --Applied Class No:A12
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> -- Task 1 Add Create table statements for the white TABLES below
SQL> -- Ensure all column comments, and constraints (other than FK's)
SQL> -- are included. FK constraints are to be added at the end of this script
SQL> -- BOOKING
SQL> CREATE TABLE booking (
  2        booking_id              NUMBER(8) NOT NULL,
  3        resort_id               NUMBER(4) NOT NULL,
  4        cabin_no                NUMBER(3) NOT NULL,
  5        booking_from            DATE NOT NULL,
  6        booking_to              DATE NOT NULL,
  7        booking_noadults        NUMBER(2) NOT NULL,
  8        booking_nochildren      NUMBER(2) NOT NULL,
  9        booking_total_points_cost NUMBER(4) NOT NULL,
 10        member_id               NUMBER(6) NOT NULL,
 11        staff_id                NUMBER(5) NOT NULL,
 12        CONSTRAINT booking_pk PRIMARY KEY ( booking_id ),
 13        CONSTRAINT booking_uk UNIQUE ( resort_id,
 14                                       cabin_no,
 15                                       booking_from )
 16  );
```

should use table constraint (pointing at line 11)

```
Table BOOKING created.

SQL>
SQL> COMMENT ON COLUMN booking.booking_id IS
  2        'Surrogate key added to replace BOOKING composite PK';

Comment created.

SQL>
SQL> COMMENT ON COLUMN booking.resort_id IS
  2        'Resort identifier for this booking';

Comment created.

SQL>
```

```
SQL> COMMENT ON COLUMN booking.cabin_no IS
  2       'Cabin number within the resort for this booking';

Comment created.

SQL>
SQL> COMMENT ON COLUMN booking.booking_from IS
  2       'Date booking from';

Comment created.

SQL>
SQL> COMMENT ON COLUMN booking.booking_to IS
  2       'Date booking to';

Comment created.

SQL>
SQL> COMMENT ON COLUMN booking.booking_noadults IS
  2       'Number of adults for this booking';

Comment created.

SQL>
SQL> COMMENT ON COLUMN booking.booking_nochildren IS
  2       'Number of children for this booking';

Comment created.

SQL>
SQL> COMMENT ON COLUMN booking.booking_total_points_cost IS
  2       'Total cost to the member in points for this booking';

Comment created.

SQL>
SQL> COMMENT ON COLUMN booking.member_id IS
  2       'Unique member ID across TSA for the member who made this booking';

Comment created.

SQL>
SQL> COMMENT ON COLUMN booking.staff_id IS
  2       'Staff identifier of the staff member who took this booking';

Comment created.

SQL>
SQL> -- CABIN
SQL> CREATE TABLE cabin (
  2       resort_id               NUMBER(4) NOT NULL,
  3       cabin_no                NUMBER(3) NOT NULL,
  4       cabin_nobedrooms        NUMBER(1) NOT NULL,
  5       cabin_sleeping_capacity NUMBER(2) NOT NULL,
  6       cabin_bathroom_type     CHAR(1) NOT NULL,
  7       cabin_points_cost_day   NUMBER(4) NOT NULL,
```

```
  8       cabin_description         VARCHAR(250) NOT NULL,
  9       CONSTRAINT cabin_pk PRIMARY KEY ( resort_id,
 10                                         cabin_no ),
 11       CONSTRAINT check_nobedrooms CHECK ( cabin_nobedrooms BETWEEN 1 AND 4 ),
 12       CONSTRAINT check_bathroom_type CHECK ( cabin_bathroom_type IN ( 'I', 'C' ) )
 13   );
```

should use table constraint and give each constraint a unique name

```
Table CABIN created.

SQL>
SQL> COMMENT ON COLUMN cabin.resort_id IS
  2      'Resort identifier';

Comment created.

SQL>
SQL> COMMENT ON COLUMN cabin.cabin_no IS
  2      'Cabin number within the resort';

Comment created.

SQL>
SQL> COMMENT ON COLUMN cabin.cabin_nobedrooms IS
  2      'Number of bedrooms in the cabin (between 1 and 4 bedrooms)';

Comment created.

SQL>
SQL> COMMENT ON COLUMN cabin.cabin_sleeping_capacity IS
  2      'Cabin sleeping capacity';

Comment created.

SQL>
SQL> COMMENT ON COLUMN cabin.cabin_bathroom_type IS
  2      'Type of cabin bathroom: I - Inside cabin bathroom, C - Outside common bathroom';

Comment created.

SQL>
SQL> COMMENT ON COLUMN cabin.cabin_points_cost_day IS
  2      'Number of member points the cabin costs per day';

Comment created.

SQL>
SQL> COMMENT ON COLUMN cabin.cabin_description IS
  2      'Cabin description';
```

missing cabin's FK, should have resort_id as fk in cabin table

```
Comment created.

SQL>
SQL> -- Add all missing FK Constraints below here
SQL> ALTER TABLE booking
  2      ADD CONSTRAINT booking_cabin_fk FOREIGN KEY ( resort_id,
  3                                                    cabin_no )
```

```
   4          REFERENCES cabin ( resort_id,
   5                             cabin_no );

Table BOOKING altered.

SQL>
SQL> ALTER TABLE booking
   2        ADD CONSTRAINT booking_member_fk FOREIGN KEY ( member_id )
   3            REFERENCES member ( member_id );

Table BOOKING altered.

SQL>
SQL> ALTER TABLE booking
   2        ADD CONSTRAINT booking_staff_fk FOREIGN KEY ( staff_id )
   3            REFERENCES staff ( staff_id )
   4                ON DELETE CASCADE;

Table BOOKING altered.

SQL>
SQL> --**Trigger for checking and updating member.member_points for each booking.**--
SQL> --**Run this code before attempting Task 2 and Task 3**--
SQL> --**DO NOT REMOVE. DO NOT MODIFY**--
SQL> CREATE OR REPLACE TRIGGER check_member_points BEFORE
   2        INSERT OR DELETE OR UPDATE OF booking_total_points_cost ON booking
   3        FOR EACH ROW
   4  DECLARE
   5      var_mem_points NUMBER;
   6  BEGIN
   7      IF inserting THEN
   8          SELECT
   9              member_points
  10          INTO var_mem_points
  11          FROM
  12              member
  13          WHERE
  14              member_id = :new.member_id;
  15
  16          IF var_mem_points < :new.booking_total_points_cost THEN
  17              raise_application_error(-20001, 'Not enough member points for this booking'
  18              );
  19          ELSE
  20              var_mem_points := var_mem_points - :new.booking_total_points_cost;
  21              UPDATE member
  22              SET
  23                  member_points = var_mem_points
  24              WHERE
  25                  member_id = :new.member_id;
  26
  27          END IF;
  28
  29          dbms_output.put_line('New booking added for member '
  30                                  || :new.member_id
  31                                  || '. Remaining points for this member: '
  32                                  || var_mem_points);
```

```
33
34        END IF;
35
36        IF deleting THEN
37            SELECT
38                member_points
39            INTO var_mem_points
40            FROM
41                member
42            WHERE
43                member_id = :old.member_id;
44
45            var_mem_points := var_mem_points + :old.booking_total_points_cost;
46
47            UPDATE member
48            SET
49                member_points = var_mem_points
50            WHERE
51                member_id = :old.member_id;
52
53            dbms_output.put_line('Booking '
54                                    || :old.booking_id
55                                    || ' for member '
56                                    || :old.member_id
57                                    || ' was deleted. Remaining points for this member: '
58                                    || var_mem_points);
59
60        END IF;
61
62        IF updating THEN
63            SELECT
64                member_points
65            INTO var_mem_points
66            FROM
67                member
68            WHERE
69                member_id = :new.member_id;
70
71            var_mem_points := var_mem_points + :old.booking_total_points_cost;
72
73            IF var_mem_points < :new.booking_total_points_cost THEN
74                raise_application_error(-20001, 'Not enough member points for this booking'
75                );
76            ELSE
77                var_mem_points := var_mem_points - :new.booking_total_points_cost;
78                UPDATE member
79                SET
80                    member_points = var_mem_points
81                WHERE
82                    member_id = :new.member_id;
83
84                dbms_output.put_line('Booking '
85                                        || :old.booking_id
86                                        || ' for member '
87                                        || :new.member_id
88                                        || ' was updated. Remaining points for this member: '
```

```
 89                                          || var_mem_points);
 90
 91          END IF;
 92
 93       END IF;
 94
 95  END;
 96  /

Trigger CHECK_MEMBER_POINTS compiled

SQL> --**End of trigger**--
SQL>
SQL> ------------- CABIN -------------------------------------------
SQL> describe CABIN
Name                     Null?    Type
------------------------ -------- -------------
RESORT_ID                NOT NULL NUMBER(4)
CABIN_NO                 NOT NULL NUMBER(3)
CABIN_NOBEDROOMS         NOT NULL NUMBER(1)
CABIN_SLEEPING_CAPACITY  NOT NULL NUMBER(2)
CABIN_BATHROOM_TYPE      NOT NULL CHAR(1)
CABIN_POINTS_COST_DAY    NOT NULL NUMBER(4)
CABIN_DESCRIPTION        NOT NULL VARCHAR2(250)
SQL> ------------- BOOKING -----------------------------------------
SQL> describe BOOKING
Name                     Null?    Type
------------------------ -------- ---------
BOOKING_ID               NOT NULL NUMBER(8)
RESORT_ID                NOT NULL NUMBER(4)
CABIN_NO                 NOT NULL NUMBER(3)
BOOKING_FROM             NOT NULL DATE
BOOKING_TO               NOT NULL DATE
BOOKING_NOADULTS         NOT NULL NUMBER(2)
BOOKING_NOCHILDREN       NOT NULL NUMBER(2)
BOOKING_TOTAL_POINTS_COST NOT NULL NUMBER(4)
MEMBER_ID                NOT NULL NUMBER(6)
STAFF_ID                 NOT NULL NUMBER(5)
SQL>
SQL>
SQL>
SQL> ------------- CONSTRAINTS DECLARED --------------------------
SQL> set echo off

CONSTRAINT_NAME            CONSTRAINT_ TABLE_NAME     SEARCH_CONDITION
-------------------------- ----------- -------------- --------------------------------------------------------------------------
BOOKING_UK                 Unique      BOOKING
BOOKING_PK                 Primary Key BOOKING
BOOKING_STAFF_FK           Foreign Key BOOKING
BOOKING_CABIN_FK           Foreign Key BOOKING
BOOKING_MEMBER_FK          Foreign Key BOOKING
SYS_C003483788             Check       BOOKING        "CABIN_NO" IS NOT NULL
SYS_C003483789             Check       BOOKING        "BOOKING_FROM" IS NOT NULL
SYS_C003483790             Check       BOOKING        "BOOKING_TO" IS NOT NULL
SYS_C003483791             Check       BOOKING        "BOOKING_NOADULTS" IS NOT NULL
SYS_C003483786             Check       BOOKING        "BOOKING_ID" IS NOT NULL
SYS_C003483793             Check       BOOKING        "BOOKING_TOTAL_POINTS_COST" IS NOT NULL
```

```
SYS_C003483794          Check      BOOKING        "MEMBER_ID" IS NOT NULL
SYS_C003483795          Check      BOOKING        "STAFF_ID" IS NOT NULL
SYS_C003483787          Check      BOOKING        "RESORT_ID" IS NOT NULL
SYS_C003483792          Check      BOOKING        "BOOKING_NOCHILDREN" IS NOT NULL
CABIN_PK                Primary Key CABIN
SYS_C003483801          Check      CABIN          "CABIN_SLEEPING_CAPACITY" IS NOT NULL
SYS_C003483802          Check      CABIN          "CABIN_BATHROOM_TYPE" IS NOT NULL
SYS_C003483803          Check      CABIN          "CABIN_POINTS_COST_DAY" IS NOT NULL
SYS_C003483804          Check      CABIN          "CABIN_DESCRIPTION" IS NOT NULL
SYS_C003483800          Check      CABIN          "CABIN_NOBEDROOMS" IS NOT NULL
CHECK_BATHROOM_TYPE     Check      CABIN           cabin_bathroom_type IN ( 'I', 'C' )
SYS_C003483799          Check      CABIN          "CABIN_NO" IS NOT NULL
SYS_C003483798          Check      CABIN          "RESORT_ID" IS NOT NULL
CHECK_NOBEDROOMS        Check      CABIN           cabin_nobedrooms BETWEEN 1 AND 4

25 rows selected.

SQL> ------------- Task 2 Load Student Data  -----------------------------------
SQL> @T2-tsa-insert.sql
SQL> /*****PLEASE ENTER YOUR DETAILS BELOW*****/
SQL> --T2-tsa-insert.sql
SQL>
SQL> --Student ID:33429472
SQL> --Student Name:Ziqi Pei
SQL> --Unit Code:FIT9132
SQL> --Applied Class No:A12
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> ---**This command shows the outputs of triggers**---
SQL> ---**Run the command before running the insert statements.**---
SQL> ---**Do not remove**---
SQL> SET SERVEROUTPUT ON
SQL> ---**end**---
SQL>
SQL> -------------------------------------
SQL> --INSERT INTO cabin
SQL> -------------------------------------
SQL> -- Insert 20 CABIN entries --
SQL> -- Assume primary key values for cabins below 100
SQL> -- Choose dates between 1st March 2023 and 30th April 2023
SQL> -- Inserting sample data into CABIN table
SQL>
SQL>
SQL> SELECT
  2      *
  3  FROM
  4      cabin;
no rows selected
SQL>
SQL> INSERT INTO cabin (
```

```
  2      resort_id,
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
  9  ) VALUES (
 10      1,
 11      1,
 12      1,
 13      2,
 14      'I',
 15      150,
 16      'Cozy cabin with a beautiful garden view'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2      resort_id,
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
  9  ) VALUES (
 10      1,
 11      2,
 12      2,
 13      4,
 14      'C',
 15      100,
 16      'Spacious cabin near the tranquil lake'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2      resort_id,
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
  9  ) VALUES (
 10      2,
 11      1,
 12      4,
 13      8,
 14      'I',
 15      100,
```

```
  16     'Rustic cabin nestled in the serene woods'
  17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
   2      resort_id,
   3      cabin_no,
   4      cabin_nobedrooms,
   5      cabin_sleeping_capacity,
   6      cabin_bathroom_type,
   7      cabin_points_cost_day,
   8      cabin_description
   9  ) VALUES (
  10      2,
  11      2,
  12      3,
  13      6,
  14      'C',
  15      200,
  16      'Luxurious cabin with a private pool and scenic surroundings'
  17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
   2      resort_id,
   3      cabin_no,
   4      cabin_nobedrooms,
   5      cabin_sleeping_capacity,
   6      cabin_bathroom_type,
   7      cabin_points_cost_day,
   8      cabin_description
   9  ) VALUES (
  10      3,
  11      1,
  12      2,
  13      4,
  14      'I',
  15      150,
  16      'Modern cabin with breathtaking mountain views'
  17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
   2      resort_id,
   3      cabin_no,
   4      cabin_nobedrooms,
   5      cabin_sleeping_capacity,
   6      cabin_bathroom_type,
   7      cabin_points_cost_day,
   8      cabin_description
```

```
  9   ) VALUES (
 10        3,
 11        2,
 12        1,
 13        1,
 14        'C',
 15        250,
 16        'Cozy cabin perfect for a solo retreat'
 17   );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2        resort_id,
  3        cabin_no,
  4        cabin_nobedrooms,
  5        cabin_sleeping_capacity,
  6        cabin_bathroom_type,
  7        cabin_points_cost_day,
  8        cabin_description
  9   ) VALUES (
 10        4,
 11        1,
 12        2,
 13        4,
 14        'I',
 15        100,
 16        'Charming cabin surrounded by nature'
 17   );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2        resort_id,
  3        cabin_no,
  4        cabin_nobedrooms,
  5        cabin_sleeping_capacity,
  6        cabin_bathroom_type,
  7        cabin_points_cost_day,
  8        cabin_description
  9   ) VALUES (
 10        4,
 11        2,
 12        3,
 13        3,
 14        'C',
 15        100,
 16        'Elegant cabin with modern amenities'
 17   );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
```

```
  2        resort_id,
  3        cabin_no,
  4        cabin_nobedrooms,
  5        cabin_sleeping_capacity,
  6        cabin_bathroom_type,
  7        cabin_points_cost_day,
  8        cabin_description
  9  ) VALUES (
 10        5,
 11        1,
 12        4,
 13        4,
 14        'C',
 15        150,
 16        'Spacious cabin with a cozy fireplace'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2        resort_id,
  3        cabin_no,
  4        cabin_nobedrooms,
  5        cabin_sleeping_capacity,
  6        cabin_bathroom_type,
  7        cabin_points_cost_day,
  8        cabin_description
  9  ) VALUES (
 10        5,
 11        2,
 12        3,
 13        4,
 14        'I',
 15        250,
 16        'Stylish cabin with panoramic mountain views'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2        resort_id,
  3        cabin_no,
  4        cabin_nobedrooms,
  5        cabin_sleeping_capacity,
  6        cabin_bathroom_type,
  7        cabin_points_cost_day,
  8        cabin_description
  9  ) VALUES (
 10        6,
 11        1,
 12        2,
 13        4,
 14        'C',
 15        100,
```

```
 16      'Quaint cabin near the picturesque river'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2      resort_id,
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
  9  ) VALUES (
 10      6,
 11      2,
 12      1,
 13      2,
 14      'I',
 15      200,
 16      'Private cabin with stunning sunset views'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2      resort_id,
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
  9  ) VALUES (
 10      7,
 11      1,
 12      3,
 13      6,
 14      'C',
 15      150,
 16      'Charming cabin with a cozy fireplace'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2      resort_id,
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
```

```
  9  ) VALUES (
 10      7,
 11      2,
 12      2,
 13      4,
 14      'I',
 15      250,
 16      'Rustic cabin with a balcony overlooking the forest'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2      resort_id,
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
  9  ) VALUES (
 10      8,
 11      1,
 12      1,
 13      2,
 14      'C',
 15      100,
 16      'Romantic cabin with a private hot tub'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2      resort_id,
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
  9  ) VALUES (
 10      8,
 11      2,
 12      3,
 13      6,
 14      'I',
 15      200,
 16      'Secluded cabin surrounded by wildlife'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
```

```
  2        resort_id,
  3        cabin_no,
  4        cabin_nobedrooms,
  5        cabin_sleeping_capacity,
  6        cabin_bathroom_type,
  7        cabin_points_cost_day,
  8        cabin_description
  9  ) VALUES (
 10        9,
 11        1,
 12        4,
 13        8,
 14        'C',
 15        150,
 16        'Spacious cabin with stunning lake views'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2        resort_id,
  3        cabin_no,
  4        cabin_nobedrooms,
  5        cabin_sleeping_capacity,
  6        cabin_bathroom_type,
  7        cabin_points_cost_day,
  8        cabin_description
  9  ) VALUES (
 10        9,
 11        2,
 12        2,
 13        4,
 14        'I',
 15        250,
 16        'Modern cabin with a fully equipped kitchen'
 17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
  2        resort_id,
  3        cabin_no,
  4        cabin_nobedrooms,
  5        cabin_sleeping_capacity,
  6        cabin_bathroom_type,
  7        cabin_points_cost_day,
  8        cabin_description
  9  ) VALUES (
 10        10,
 11        1,
 12        1,
 13        1,
 14        'C',
 15        100,
```

no rows updated

```
  16       'Cozy cabin with a charming fireplace'
  17  );

1 row inserted.

SQL>
SQL> INSERT INTO cabin (
   2       resort_id,
   3       cabin_no,
   4       cabin_nobedrooms,
   5       cabin_sleeping_capacity,
   6       cabin_bathroom_type,
   7       cabin_points_cost_day,
   8       cabin_description
   9  ) VALUES (
  10       10,
  11       2,
  12       3,
  13       6,
  14       'I',
  15       200,
  16       'Scenic cabin nestled in the mountains'
  17  );

1 row inserted.

SQL>
SQL> COMMIT;

Commit complete.

SQL>
SQL>
SQL> --------------------------------------
SQL> --INSERT INTO booking
SQL> --------------------------------------
SQL> -- Insert 20 BOOKING entries --
SQL> -- Assume primary key values for bookings below 100
SQL> -- Choose dates between 1st March 2023 and 30th April 2023
SQL> DELETE FROM booking;

0 rows deleted.

SQL>
SQL> INSERT INTO booking (
   2       booking_id,
   3       resort_id,
   4       cabin_no,
   5       booking_from,
   6       booking_to,
   7       booking_noadults,
   8       booking_nochildren,
   9       booking_total_points_cost,
  10       member_id,
  11       staff_id
  12  ) VALUES (
```

```
 13        1,
 14        1,
 15        1,
 16        TO_DATE('01-Mar-2023', 'DD-Mon-YYYY'),
 17        TO_DATE('03-Mar-2023', 'DD-Mon-YYYY'),
 18        2,
 19        2,
 20        500,
 21        1,
 22        1
 23   );
New booking added for member 1. Remaining points for this member: 500


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2        booking_id,
  3        resort_id,
  4        cabin_no,
  5        booking_from,
  6        booking_to,
  7        booking_noadults,
  8        booking_nochildren,
  9        booking_total_points_cost,
 10        member_id,
 11        staff_id
 12   ) VALUES (
 13        2,
 14        1,
 15        2,
 16        TO_DATE('05-Mar-2023', 'DD-Mon-YYYY'),
 17        TO_DATE('10-Mar-2023', 'DD-Mon-YYYY'),
 18        2,
 19        0,
 20        500,
 21        2,
 22        3
 23   );
New booking added for member 2. Remaining points for this member: 1500


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2        booking_id,
  3        resort_id,
  4        cabin_no,
  5        booking_from,
  6        booking_to,
  7        booking_noadults,
  8        booking_nochildren,
  9        booking_total_points_cost,
 10        member_id,
```

```
 11        staff_id
 12   ) VALUES (
 13        3,
 14        2,
 15        1,
 16        TO_DATE('15-Mar-2023', 'DD-Mon-YYYY'),
 17        TO_DATE('20-Mar-2023', 'DD-Mon-YYYY'),
 18        4,
 19        2,
 20        600,
 21        3,
 22        5
 23   );
New booking added for member 3. Remaining points for this member: 400


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2        booking_id,
  3        resort_id,
  4        cabin_no,
  5        booking_from,
  6        booking_to,
  7        booking_noadults,
  8        booking_nochildren,
  9        booking_total_points_cost,
 10        member_id,
 11        staff_id
 12   ) VALUES (
 13        4,
 14        2,
 15        2,
 16        TO_DATE('25-Mar-2023', 'DD-Mon-YYYY'),
 17        TO_DATE('26-Mar-2023', 'DD-Mon-YYYY'),
 18        3,
 19        1,
 20        400,
 21        4,
 22        8
 23   );
New booking added for member 4. Remaining points for this member: 600


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2        booking_id,
  3        resort_id,
  4        cabin_no,
  5        booking_from,
  6        booking_to,
  7        booking_noadults,
  8        booking_nochildren,
```

```
   9        booking_total_points_cost,
  10        member_id,
  11        staff_id
  12  ) VALUES (
  13        5,
  14        3,
  15        1,
  16        TO_DATE('05-Apr-2023', 'DD-Mon-YYYY'),
  17        TO_DATE('10-Apr-2023', 'DD-Mon-YYYY'),
  18        2,
  19        0,
  20        750,
  21        5,
  22        10
  23  );
New booking added for member 5. Remaining points for this member: 1250


1 row inserted.

SQL>
SQL> INSERT INTO booking (
   2        booking_id,
   3        resort_id,
   4        cabin_no,
   5        booking_from,
   6        booking_to,
   7        booking_noadults,
   8        booking_nochildren,
   9        booking_total_points_cost,
  10        member_id,
  11        staff_id
  12  ) VALUES (
  13        6,
  14        3,
  15        2,
  16        TO_DATE('15-Apr-2023', 'DD-Mon-YYYY'),
  17        TO_DATE('17-Apr-2023', 'DD-Mon-YYYY'),
  18        1,
  19        1,
  20        400,
  21        6,
  22        11
  23  );
New booking added for member 6. Remaining points for this member: 600


1 row inserted.

SQL>
SQL> INSERT INTO booking (
   2        booking_id,
   3        resort_id,
   4        cabin_no,
   5        booking_from,
   6        booking_to,
```

```
  7       booking_noadults,
  8       booking_nochildren,
  9       booking_total_points_cost,
 10       member_id,
 11       staff_id
 12   ) VALUES (
 13       7,
 14       4,
 15       1,
 16       TO_DATE('01-Mar-2023', 'DD-Mon-YYYY'),
 17       TO_DATE('05-Mar-2023', 'DD-Mon-YYYY'),
 18       2,
 19       0,
 20       400,
 21       7,
 22       13
 23   );
New booking added for member 7. Remaining points for this member: 600


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2       booking_id,
  3       resort_id,
  4       cabin_no,
  5       booking_from,
  6       booking_to,
  7       booking_noadults,
  8       booking_nochildren,
  9       booking_total_points_cost,
 10       member_id,
 11       staff_id
 12   ) VALUES (
 13       8,
 14       4,
 15       2,
 16       TO_DATE('10-Mar-2023', 'DD-Mon-YYYY'),
 17       TO_DATE('15-Mar-2023', 'DD-Mon-YYYY'),
 18       3,
 19       2,
 20       400,
 21       8,
 22       15
 23   );
New booking added for member 8. Remaining points for this member: 600


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2       booking_id,
  3       resort_id,
  4       cabin_no,
```

```
   5        booking_from,
   6        booking_to,
   7        booking_noadults,
   8        booking_nochildren,
   9        booking_total_points_cost,
  10        member_id,
  11        staff_id
  12  ) VALUES (
  13        9,
  14        5,
  15        1,
  16        TO_DATE('20-Mar-2023', 'DD-Mon-YYYY'),
  17        TO_DATE('25-Mar-2023', 'DD-Mon-YYYY'),
  18        4,
  19        1,
  20        600,
  21        9,
  22        17
  23  );
New booking added for member 9. Remaining points for this member: 400


1 row inserted.

SQL>
SQL> INSERT INTO booking (
   2        booking_id,
   3        resort_id,
   4        cabin_no,
   5        booking_from,
   6        booking_to,
   7        booking_noadults,
   8        booking_nochildren,
   9        booking_total_points_cost,
  10        member_id,
  11        staff_id
  12  ) VALUES (
  13        10,
  14        5,
  15        2,
  16        TO_DATE('05-Apr-2023', 'DD-Mon-YYYY'),
  17        TO_DATE('07-Apr-2023', 'DD-Mon-YYYY'),
  18        2,
  19        0,
  20        500,
  21        10,
  22        18
  23  );
New booking added for member 10. Remaining points for this member: 500


1 row inserted.

SQL>
SQL> INSERT INTO booking (
   2        booking_id,
```

```
  3        resort_id,
  4        cabin_no,
  5        booking_from,
  6        booking_to no rows
  7        booking_noadults,
  8        booking_nochildren,
  9        booking_total_points_cost,
 10        member_id,
 11        staff_id
 12  ) VALUES (
 13        11,
 14        1,
 15        1,
 16        TO_DATE('03-Apr-2023', 'DD-Mon-YYYY'),
 17        TO_DATE('07-Apr-2023', 'DD-Mon-YYYY'),
 18        3,
 19        1,
 20        600,
 21        2,
 22        1
 23  );
New booking added for member 2. Remaining points for this member: 900


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2        booking_id,
  3        resort_id,
  4        cabin_no,
  5        booking_from,
  6        booking_to,
  7        booking_noadults,
  8        booking_nochildren,
  9        booking_total_points_cost,
 10        member_id,
 11        staff_id
 12  ) VALUES (
 13        12,
 14        1,
 15        2,
 16        TO_DATE('05-Apr-2023', 'DD-Mon-YYYY'),
 17        TO_DATE('06-Apr-2023', 'DD-Mon-YYYY'),
 18        2,
 19        0,
 20        250,
 21        2,
 22        1
 23  );
New booking added for member 2. Remaining points for this member: 650


1 row inserted.

SQL>
```

```
SQL> INSERT INTO booking (
  2      booking_id,
  3      resort_id,
  4      cabin_no,
  5      booking_from,
  6      booking_to,
  7      booking_noadults,
  8      booking_nochildren,
  9      booking_total_points_cost,
 10      member_id,
 11      staff_id
 12  ) VALUES (
 13      13,
 14      4,
 15      1,
 16      TO_DATE('10-Apr-2023', 'DD-Mon-YYYY'),
 17      TO_DATE('15-Apr-2023', 'DD-Mon-YYYY'),
 18      2,
 19      1,
 20      600,
 21      4,
 22      2
 23  );
New booking added for member 4. Remaining points for this member: 0


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2      booking_id,
  3      resort_id,
  4      cabin_no,
  5      booking_from,
  6      booking_to,
  7      booking_noadults,
  8      booking_nochildren,
  9      booking_total_points_cost,
 10      member_id,
 11      staff_id
 12  ) VALUES (
 13      14,
 14      4,
 15      2,
 16      TO_DATE('12-Apr-2023', 'DD-Mon-YYYY'),
 17      TO_DATE('12-Apr-2023', 'DD-Mon-YYYY'),
 18      2,
 19      2,
 20      0,
 21      4,
 22      2
 23  );
New booking added for member 4. Remaining points for this member: 0


1 row inserted.
```

```
SQL>
SQL> INSERT INTO booking (
  2       booking_id,
  3       resort_id,
  4       cabin_no,
  5       booking_from,
  6       booking_to,
  7       booking_noadults,
  8       booking_nochildren,
  9       booking_total_points_cost,
 10       member_id,
 11       staff_id
 12  ) VALUES (
 13       15,
 14       5,
 15       1,
 16       TO_DATE('15-Apr-2023', 'DD-Mon-YYYY'),
 17       TO_DATE('20-Apr-2023', 'DD-Mon-YYYY'),
 18       4,
 19       0,
 20       1000,
 21       5,
 22       3
 23  );
New booking added for member 5. Remaining points for this member: 250


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2       booking_id,
  3       resort_id,
  4       cabin_no,
  5       booking_from,
  6       booking_to,
  7       booking_noadults,
  8       booking_nochildren,
  9       booking_total_points_cost,
 10       member_id,
 11       staff_id
 12  ) VALUES (
 13       16,
 14       5,
 15       2,
 16       TO_DATE('18-Apr-2023', 'DD-Mon-YYYY'),
 17       TO_DATE('20-Apr-2023', 'DD-Mon-YYYY'),
 18       2,
 19       1,
 20       500,
 21       6,
 22       3
 23  );
New booking added for member 6. Remaining points for this member: 100
```

```
1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2       booking_id,
  3       resort_id,
  4       cabin_no,
  5       booking_from,
  6       booking_to,
  7       booking_noadults,
  8       booking_nochildren,
  9       booking_total_points_cost,
 10       member_id,
 11       staff_id
 12  ) VALUES (
 13       17,
 14       8,
 15       1,
 16       TO_DATE('22-Apr-2023', 'DD-Mon-YYYY'),
 17       TO_DATE('23-Apr-2023', 'DD-Mon-YYYY'),
 18       3,
 19       2,
 20       100,
 21       7,
 22       4
 23  );
New booking added for member 7. Remaining points for this member: 500


1 row inserted.

SQL>
SQL> INSERT INTO booking (
  2       booking_id,
  3       resort_id,
  4       cabin_no,
  5       booking_from,
  6       booking_to,
  7       booking_noadults,
  8       booking_nochildren,
  9       booking_total_points_cost,
 10       member_id,
 11       staff_id
 12  ) VALUES (
 13       18,
 14       8,
 15       2,
 16       TO_DATE('25-Apr-2023', 'DD-Mon-YYYY'),
 17       TO_DATE('26-Apr-2023', 'DD-Mon-YYYY'),
 18       2,
 19       0,
 20       200,
 21       8,
 22       4
 23  );
```

New booking added for member 8. Remaining points for this member: 400

1 row inserted.   no

```
SQL>
SQL> INSERT INTO booking (
  2      booking_id,
  3      resort_id,
  4      cabin_no,
  5      booking_from,
  6      booking_to,
  7      booking_noadults,
  8      booking_nochildren,
  9      booking_total_points_cost,
 10      member_id,
 11      staff_id
 12  ) VALUES (
 13      19,
 14      10,
 15      1,
 16      TO_DATE('27-Apr-2023', 'DD-Mon-YYYY'),
 17      TO_DATE('30-Apr-2023', 'DD-Mon-YYYY'),
 18      2,
 19      1,
 20      400,
 21      9,
 22      5
 23  );
```
New booking added for member 9. Remaining points for this member: 0

1 row inserted.

```
SQL>
SQL> INSERT INTO booking (
  2      booking_id,
  3      resort_id,
  4      cabin_no,
  5      booking_from,
  6      booking_to,
  7      booking_noadults,
  8      booking_nochildren,
  9      booking_total_points_cost,
 10      member_id,
 11      staff_id
 12  ) VALUES (
 13      20,
 14      10,
 15      2,
 16      TO_DATE('28-Apr-2023', 'DD-Mon-YYYY'),
 17      TO_DATE('30-Apr-2023', 'DD-Mon-YYYY'),
 18      1,
 19      0,
 20      300,
 21      10,
```

```
 22      5
 23  );
New booking added for member 10. Remaining points for this member: 200


1 row inserted.

SQL>
SQL> COMMIT;

Commit complete.

SQL>
SQL> set echo on
SQL> -- Check INSERT Count
SQL> --------------------
SQL> set echo off

Table      Entries inserted Requirement Met
---------- ---------------- --------------------------
1. CABIN               20 Requirement (20 entries) Met
2. BOOKING             20 Requirement (20 entries) Met

SQL> -- EXPLICIT checks
SQL> --
SQL> -- Check INSERT Data
SQL> --------------------
SQL> set echo off
SQL> -- CABIN
SQL> set echo off

 RESORT_ID   CABIN_NO CABIN_NOBEDROOMS CABIN_SLEEPING_CAPACITY C CABIN_POINTS_COST_DAY CABIN_DESCRIPTION


---------- ---------- ---------------- ---------------------- - -------------------- ------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------
         1          1                1                      2 I                  150 Cozy cabin with a beautiful garden view

         1          2                2                      4 C                  100 Spacious cabin near the tranquil lake

         2          1                4                      8 I                  100 Rustic cabin nestled in the serene woods

         2          2                3                      6 C                  200 Luxurious cabin with a private pool and scenic surrou
ndings

         3          1                2                      4 I                  150 Modern cabin with breathtaking mountain views

         3          2                1                      1 C                  250 Cozy cabin perfect for a solo retreat

         4          1                2                      4 I                  100 Charming cabin surrounded by nature
```

```
        4          2          3               3 C              100 Elegant cabin with modern amenities

        5          1          4               4 C              150 Spacious cabin with a cozy fireplace

        5          2          3               4 I              250 Stylish cabin with panoramic mountain views

        6          1          2               4 C              100 Quaint cabin near the picturesque river

        6          2          1               2 I              200 Private cabin with stunning sunset views

        7          1          3               6 C              150 Charming cabin with a cozy fireplace

        7          2          2               4 I              250 Rustic cabin with a balcony overlooking the forest

        8          1          1               2 C              100 Romantic cabin with a private hot tub

        8          2          3               6 I              200 Secluded cabin surrounded by wildlife

        9          1          4               8 C              150 Spacious cabin with stunning lake views

        9          2          2               4 I              250 Modern cabin with a fully equipped kitchen

       10          1          1               1 C              100 Cozy cabin with a charming fireplace

       10          2          3               6 I              200 Scenic cabin nestled in the mountains


20 rows selected.

SQL> -- BOOKING
SQL> set echo off

BOOKING_ID  RESORT_ID  CABIN_NO BOOKING FROM          BOOKING TO           BOOKING_NOADULTS BOOKING_NOCHILDREN BOOKING_TOTAL_POINTS_COST  ME
MBER_ID    STAFF_ID
---------- ---------- ---------- -------------------- -------------------- ---------------- ------------------ ------------------------ ---
------- ----------
        1          1          1 01-Mar-2023          03-Mar-2023                         2                  2                      500
        1          1
        7          4          1 01-Mar-2023          05-Mar-2023                         2                  0                      400
        7         13
        2          1          2 05-Mar-2023          10-Mar-2023                         2                  0                      500
```

```
    2           3
      8           4       2 10-Mar-2023    15-Mar-2023                3         2            400
8          15
      3           2       1 15-Mar-2023    20-Mar-2023                4         2            600
3           5
      9           5       1 20-Mar-2023    25-Mar-2023                4         1            600
9          17
      4           2       2 25-Mar-2023    26-Mar-2023                3         1            400
4           8
     11           1       1 03-Apr-2023    07-Apr-2023                3         1            600
2           1
      5           3       1 05-Apr-2023    10-Apr-2023                2         0            750
5          10
     10           5       2 05-Apr-2023    07-Apr-2023                2         0            500
10         18
     12           1       2 05-Apr-2023    06-Apr-2023                2         0            250
2           1
     13           4       1 10-Apr-2023    15-Apr-2023                2         1            600
4           2
     14           4       2 12-Apr-2023    12-Apr-2023                2         2              0
4           2
      6           3       2 15-Apr-2023    17-Apr-2023                1         1            400
6          11
     15           5       1 15-Apr-2023    20-Apr-2023                4         0           1000
5           3
     16           5       2 18-Apr-2023    20-Apr-2023                2         1            500
6           3
     17           8       1 22-Apr-2023    23-Apr-2023                3         2            100
7           4
     18           8       2 25-Apr-2023    26-Apr-2023                2         0            200
8           4
     19          10       1 27-Apr-2023    30-Apr-2023                2         1            400
9           5
     20          10       2 28-Apr-2023    30-Apr-2023                1         0            300
10          5

20 rows selected.

SQL> -- EXPLICIT checks
SQL> set echo off
SQL> -- Checking dates within required range 01 Mar 2023 to 30 Apr 2023
SQL> set echo off

Date Type          Outside Date Range
------------------ ------------------
BOOKING To Date                     0
BOOKING From Date                   0

SQL> -- PKs used - must be under 100
SQL> set echo off

PK_ABOVE_100
------------
           0

SQL> -- CABIN
```

Assignment 2A Feedback

```
SQL> -- Check involved resorts
SQL> set echo off

DIFFERENT_RESORTS Cabins in resorts requirements
----------------- ------------------------------------------------
               10 5 different resorts met


 RESORT_ID RESORT_NAME                                             TOWN_NAME
---------- ------------------------------------------------        -----------------------------------------------
         1 Byron Bay Exclusive Resort                              Byron Bay
         2 Amazing Resort                                          Echuca
         3 Alice Springs Resort                                    Alice Springs
         4 Awesome Resort                                          Broome
         5 Byron Bay Super Resort                                  Byron Bay
         6 Gympie Luxury Resort                                    Gympie
         7 Taree Exclusive Resort                                  Taree
         8 King Resort at Kingaroy                                 Kingaroy
         9 Queen Resort                                            Mount Isa
        10 Awesome Resort                                          Mudgee

10 rows selected.

SQL> -- Check number of cabins per resort
SQL> set echo off

DIFFERENT_RESORTS_WITH_MORETHAN_2CABINS Cabins in resorts requirements
--------------------------------------- --------------------------------------------------------------
                                      0 Error: not met 2 resorts have more than 2 cabins requirement

no rows selected
SQL> -- BOOKING
SQL> -- Check at least 10 cabins in 5 different resorts
SQL> set echo off

DIFFERENT_CABINS_BOOKED DISTINCT_CABINS_BOOKED
----------------------- ------------------------------------------------
                     14 10 different cabin bookings met


 RESORT_ID   CABIN_NO
---------- ----------
         1          1
         1          2
         2          1
         2          2
         3          1
         3          2
         4          1
         4          2
         5          1
         5          2
         8          1
         8          2
        10          1
        10          2
```

Assignment 2A Feedback

14 rows selected.


```
DIFFERENT_RESORTS_BOOKED DISTINCT_RESORTS_BOOKED
------------------------ ------------------------------------------------
                       7 5 different resorts bookings met


 RESORT_ID
----------
         1
         2
         3
         4
         5
         8
        10

7 rows selected.

SQL> -- BOOKING
SQL> -- Check at least at least three cabins booked more than 3 times
SQL> set echo off

COUNT_CABINS3X 3 cabins booked at least 3 times
-------------- ----------------------------------
             0 Error: NOT met requirement

SQL> -- BOOKING
SQL> -- Check at least 10 members made bookings
SQL> set echo off

DIFFERENT_MEMBERS Members made bookings requirement
----------------- ----------------------------------------------
               10 At least 10 members met


 MEMBER_ID MEMBER_NAME
---------- --------------------------------------------------------------
         1 Indiana Perrier
         2 Florida Goldhawk
         3 Lois Hawkshaw
         4 Marina Clements
         5 Haleigh Bonifacio
         6 Rose
         7 Stefanie Wilstead
         8 Henry
         9 Clarisa Pens
        10 Claire Busby

10 rows selected.

SQL> -- Check at least 3 members made more than one booking
SQL> set echo off
```

Assignment 2A Feedback

```
MEMBERS_WITH_MORETHAN_ONEBOOKING Number of total bookings per member
------------------------------- -------------------------------------------------------------
                              8 At least 3 members made more than one booking met


 MEMBER_ID MEMBER_NAME                                                    NUMBER_OF_BOOKINGS
---------- -------------------------------------------------------------- ------------------
         2 Florida Goldhawk                                                                3
         4 Marina Clements                                                                 3
         5 Haleigh Bonifacio                                                               2
         6 Rose                                                                            2
         7 Stefanie Wilstead                                                               2
         8 Henry                                                                           2
         9 Clarisa Pens                                                                    2
        10 Claire Busby                                                                    2

8 rows selected.

SQL> -- Check Booking To date > Booking From date
SQL> set echo off

BOOKING_ID BOOKING FROM          BOOKING TO           DATECHECK
---------- -------------------- -------------------- -------------------------------------------------------------
         1 01-Mar-2023          03-Mar-2023          Valid Booking Dates
         2 05-Mar-2023          10-Mar-2023          Valid Booking Dates
         3 15-Mar-2023          20-Mar-2023          Valid Booking Dates
         4 25-Mar-2023          26-Mar-2023          Valid Booking Dates
         5 05-Apr-2023          10-Apr-2023          Valid Booking Dates
         6 15-Apr-2023          17-Apr-2023          Valid Booking Dates
         7 01-Mar-2023          05-Mar-2023          Valid Booking Dates
         8 10-Mar-2023          15-Mar-2023          Valid Booking Dates
         9 20-Mar-2023          25-Mar-2023          Valid Booking Dates
        10 05-Apr-2023          07-Apr-2023          Valid Booking Dates
        11 03-Apr-2023          07-Apr-2023          Valid Booking Dates
        12 05-Apr-2023          06-Apr-2023          Valid Booking Dates
        13 10-Apr-2023          15-Apr-2023          Valid Booking Dates
        14 12-Apr-2023          12-Apr-2023          << Error - Booking To is before or the same as Booking From
        15 15-Apr-2023          20-Apr-2023          Valid Booking Dates
        16 18-Apr-2023          20-Apr-2023          Valid Booking Dates
        17 22-Apr-2023          23-Apr-2023          Valid Booking Dates
        18 25-Apr-2023          26-Apr-2023          Valid Booking Dates
        19 27-Apr-2023          30-Apr-2023          Valid Booking Dates
        20 28-Apr-2023          30-Apr-2023          Valid Booking Dates

20 rows selected.

SQL> -- Check Total Adults + Childrens <= Cabin Capacity
SQL> set echo off

BOOKING_ID TOTAL_NOPEOPLE CABIN_SLEEPING_CAPACITY CAPACITYCHECK
---------- -------------- ----------------------- -------------------------------------------------------------
         1              4                       2 << Error - Total number of people is more than the cabin capacity
         2              2                       4 Valid Number of People
         3              6                       8 Valid Number of People
         4              4                       6 Valid Number of People
         5              2                       4 Valid Number of People
```

```
         6               2                                        1 << Error - Total number of people is more than the cabin capacity
         7               2                                        4 Valid Number of People
         8               5                                        3 << Error - Total number of people is more than the cabin capacity
         9               5                                        4 << Error - Total number of people is more than the cabin capacity
        10               2                                        4 Valid Number of People
        11               4                                        2 << Error - Total number of people is more than the cabin capacity
        12               2                                        4 Valid Number of People
        13               3                                        4 Valid Number of People
        14               4                                        3 << Error - Total number of people is more than the cabin capacity
        15               4                                        4 Valid Number of People
        16               3                                        4 Valid Number of People
        17               5                                        2 << Error - Total number of people is more than the cabin capacity
        18               2                                        6 Valid Number of People
        19               3                                        1 << Error - Total number of people is more than the cabin capacity
        20               1                                        6 Valid Number of People
```

20 rows selected.

SQL> -- Check Booking Total Points Cost = Number of days * Cabin Cost Per Day
SQL> set echo off

```
BOOKING_ID NUMBER_OF_DAYS CABIN_POINTS_COST_DAY BOOKING_TOTAL_POINTS_COST COSTCHECK
---------- -------------- --------------------- ------------------------- -------------------------------------------------
         1              2                   150                       500 << Error - Incorrect Booking Cost Calculation
         2              5                   100                       500 Valid Booking Cost
         3              5                   100                       600 << Error - Incorrect Booking Cost Calculation
         4              1                   200                       400 << Error - Incorrect Booking Cost Calculation
         5              5                   150                       750 Valid Booking Cost
         6              2                   250                       400 << Error - Incorrect Booking Cost Calculation
         7              4                   100                       400 Valid Booking Cost
         8              5                   100                       400 << Error - Incorrect Booking Cost Calculation
         9              5                   150                       600 << Error - Incorrect Booking Cost Calculation
        10              2                   250                       500 Valid Booking Cost
        11              4                   150                       600 Valid Booking Cost
        12              1                   100                       250 << Error - Incorrect Booking Cost Calculation
        13              5                   100                       600 << Error - Incorrect Booking Cost Calculation
        14              0                   100                         0 Valid Booking Cost
        15              5                   150                      1000 << Error - Incorrect Booking Cost Calculation
        16              2                   250                       500 Valid Booking Cost
        17              1                   100                       100 Valid Booking Cost
        18              1                   200                       200 Valid Booking Cost
        19              3                   100                       400 << Error - Incorrect Booking Cost Calculation
        20              2                   200                       300 << Error - Incorrect Booking Cost Calculation
```

20 rows selected.

SQL> -- Check Booking must include at least one adult
SQL> set echo off

```
BOOKING_ID BOOKING_NOADULTS ADULTCHECK
---------- ---------------- ------------------------------
         1                2 Valid No of Adults
         2                2 Valid No of Adults
         3                4 Valid No of Adults
         4                3 Valid No of Adults
         5                2 Valid No of Adults
```

```
       6                 1 Valid No of Adults
       7                 2 Valid No of Adults
       8                 3 Valid No of Adults
       9                 4 Valid No of Adults
      10                 2 Valid No of Adults
      11                 3 Valid No of Adults
      12                 2 Valid No of Adults
      13                 2 Valid No of Adults
      14                 2 Valid No of Adults
      15                 4 Valid No of Adults
      16                 2 Valid No of Adults
      17                 3 Valid No of Adults
      18                 2 Valid No of Adults
      19                 2 Valid No of Adults
      20                 1 Valid No of Adults

20 rows selected.

SQL> ------------- Student Data replaced with marking data --------------------
SQL> --------------------- Task 3 DML -----------------------------------------
SQL> @T3-tsa-dm.sql
SQL> --*****PLEASE ENTER YOUR DETAILS BELOW*****
SQL> --T3-tsa-dm.sql
SQL>
SQL> --Student ID:33429472
SQL> --Student Name:Ziqi Pei
SQL> --Unit Code:FIT9132
SQL> --Applied Class No:A12
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> ---**This command shows the outputs of triggers**---
SQL> ---**Run the command before running the insert statements.**---
SQL> ---**Do not remove**---
SQL> SET SERVEROUTPUT ON
SQL> ---**end**---
SQL> --3(a)
SQL>
SQL> DROP SEQUENCE booking_seq;

Sequence BOOKING_SEQ dropped.

SQL>
SQL> CREATE SEQUENCE booking_seq START WITH 100 INCREMENT BY 10;

Sequence BOOKING_SEQ created.

SQL>
SQL> --3(b)
SQL> INSERT INTO cabin (
  2      resort_id,
```

```
  3      cabin_no,
  4      cabin_nobedrooms,
  5      cabin_sleeping_capacity,
  6      cabin_bathroom_type,
  7      cabin_points_cost_day,
  8      cabin_description
  9  ) VALUES (
 10      (
 11          SELECT
 12              resort_id
 13          FROM
 14              resort
 15          WHERE
 16                  resort_name = 'Awesome Resort'
 17              AND town_id = (
 18                  SELECT
 19                      town_id
 20                  FROM
 21                      town
 22                  WHERE
 23                          town_lat = - 17.9644
 24                      AND town_long = 122.2304
 25              )
 26      ),
 27      4,
 28      4,
 29      10,
 30      'C',
 31      220,
 32      'New cabin in Awesome Resort, Broome'
 33  );

1 row inserted.

SQL>
SQL> SELECT
  2      *
  3  FROM
  4      cabin;

 RESORT_ID   CABIN_NO CABIN_NOBEDROOMS CABIN_SLEEPING_CAPACITY C CABIN_POINTS_COST_DAY CABIN_DESCRIPTION


---------- ---------- ---------------- ---------------------- - -------------------- -------------------------------------------------------------
-------------------------------------------------------------------------------------------------------------------------------------------
-------------------------------------------------------------
         7          2                2                      5 C                  150 wood burning fireplace and kitchen with refrigerator,
stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.

         7          3                2                      4 C                  150 wood burning fireplace and kitchen with refrigerator,
stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.

         7          4                2                      5 C                  150 wood burning fireplace and kitchen with refrigerator,
stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.

         8          1                3                      7 I                  210 kitchen with refrigerator and stove/oven. wood burnin
```

g fireplace. free Wi-Fi.

```
        8          2              3                6 I               210 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.

        8          3              1                2 C                80 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.

        8          4              1                3 C                80 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.

        9          1              2                4 I               110 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.

        9          2              2                4 I               110 Free Wi-Fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.

        9          3              2                4 I               110 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.

       10          1              2                6 C               185 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.

       10          2              2                6 C               185 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.

       10          3              3                7 I               235 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.

        4          4              4               10 C               220 New cabin in Awesome Resort, Broome


        1          1              2                5 I               100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
        1          2              3                6 I               175 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
        1          3              2                5 I               100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
        1          4              3                7 I               175 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
        1          5              2                5 I               100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
        1          6              3                7 I               175 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
        1          7              2                4 C                75 spacious living room/dining areas, modern kitchen, la
rge bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and
charcoal and gas grills provided.
        1          8              2                5 I               100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
```

1	9	4		7	I	225 spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
1	10	2		4	C	75 spacious living room/dining areas, modern kitchen, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
1	11	1		2	C	60 living room/dining areas, large bedroom with firm memory-foam beds and upscale bedding. Fresh linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
1	12	1		2	C	60 living room/dining areas, large bedroom with firm memory-foam beds and upscale bedding. Fresh linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
2	1	2		5	C	90 Free wi-fi. kitchen with refrigerator, stove, microwave, pots and pans, silverware, toaster and utensils.
2	2	2		5	C	90 Free wi-fi. kitchen with refrigerator, stove, microwave, pots and pans, silverware, toaster and utensils.
2	3	2		5	C	90 Free wi-fi. kitchen with refrigerator, stove, microwave, pots and pans, silverware, toaster and utensils.
3	1	1		2	C	75 wood burning fireplace and kitchen with refrigerator, stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils.
3	2	1		2	C	75 wood burning fireplace and kitchen with refrigerator, stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils.
3	3	2		5	I	160 wood burning fireplace and kitchen with refrigerator, stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available. Queen or double hide-a-bed in living room.
3	4	2		4	I	150 wood burning fireplace and kitchen with refrigerator, stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available. Queen or double hide-a-bed in living room.
4	1	1		2	I	75 bedrooms with firm memory-foam beds and bedding. Linens, blankets, towels, and pillows provided.
4	2	1		3	I	85 bedrooms with firm memory-foam beds and bedding. Linens, blankets, towels, and pillows provided.
4	3	2		5	I	140 bedrooms with firm memory-foam beds and bedding. Linens, blankets, towels, and pillows provided.
5	1	3		6	I	170 spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
5	2	2		4	I	110 spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
5	3	1		3	C	80 living room/dining area, modern kitchen. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
5	4	1		3	C	80 living room/dining area, modern kitchen. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
5	5	2		4	I	110 spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table

```
s, fire rings, and charcoal and gas grills provided.
         5          6          3                     7 I                180 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
         5          7          3                     7 I                180 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.
         6          1          3                     6 I                165 Free Wi-Fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.

         6          2          3                     6 I                165 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.

         6          3          2                     5 I                125 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.

         6          4          2                     5 I                125 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.

         7          1          2                     4 C                150 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.


48 rows selected.

SQL>
SQL>
SQL> --3(c)
SQL> INSERT INTO booking (
  2      booking_id,
  3      resort_id,
  4      cabin_no,
  5      booking_from,
  6      booking_to,
  7      booking_noadults,
  8      booking_nochildren,
  9      booking_total_points_cost,
 10      member_id,
 11      staff_id
 12  ) VALUES (
 13      booking_seq.NEXTVAL,
 14      (
 15          SELECT
 16              resort_id
 17          FROM
 18              resort
 19          WHERE
 20                  resort_name = 'Awesome Resort'
 21              AND town_id = (
 22                  SELECT
 23                      town_id
 24                  FROM
 25                      town
 26                  WHERE
 27                          town_lat = - 17.9644
 28                      AND town_long = 122.2304
```

```
29                    )
30          ),
31          4,
32          TO_DATE('26-May-2023', 'DD-Mon-YYYY'),
33          TO_DATE('28-May-2023', 'DD-Mon-YYYY'),
34          4,
35          4,
36          760,
37          (
38              SELECT
39                  member_id
40              FROM
41                  member
42              WHERE
43                      resort_id = 9
44                  AND member_no = 2
45          ),
46          (
47              SELECT
48                  staff_id
49              FROM
50                  staff
51              WHERE
52                  staff_phone = '0493427245'
53          )
54   );
```

```
Error starting at line : 69 File @ D:\database\A2A_Marking_A12\Submissions_marked\Pei Ziqi_18767958_assignsubmission_file_\T3-tsa-dm.sql
In command -
INSERT INTO booking (
    booking_id,
    resort_id,
    cabin_no,
    booking_from,
    booking_to,
    booking_noadults,
    booking_nochildren,
    booking_total_points_cost,
    member_id,
    staff_id
) VALUES (
    booking_seq.NEXTVAL,
    (
        SELECT
            resort_id
        FROM
            resort
        WHERE
                resort_name = 'Awesome Resort'
            AND town_id = (
                SELECT
                    town_id
                FROM
                    town
                WHERE
                        town_lat = - 17.9644
```

```
                   AND town_long = 122.2304
            )
    ),
    4,
    TO_DATE('26-May-2023', 'DD-Mon-YYYY'),
    TO_DATE('28-May-2023', 'DD-Mon-YYYY'),
    4,
    4,
    760,
    (
        SELECT
            member_id
        FROM
            member
        WHERE
                resort_id = 9
            AND member_no = 2
    ),
    (
        SELECT
            staff_id
        FROM
            staff
        WHERE
            staff_phone = '0493427245'
    )
)
Error report -
ORA-20001: Not enough member points for this booking
ORA-06512: at "GLII0039.CHECK_MEMBER_POINTS", line 14
ORA-04088: error during execution of trigger 'GLII0039.CHECK_MEMBER_POINTS'

SQL> --3(d?
SQL> UPDATE booking
  2  SET
  3      booking_to = TO_DATE('29-may-2023', 'DD-MON-YYYY'),
  4      booking_total_points_cost = ( ( TO_DATE('29-may-2023', 'DD-MON-YYYY') - TO_DATE('26-may-2023'
  5      , 'DD-MON-YYYY') ) * 220 )
  6  WHERE
  7          resort_id = (
  8              SELECT
  9                  resort_id
 10              FROM
 11                  resort
 12              WHERE
 13                      initcap(resort_name) = 'Awesome Resort'
 14                  AND town_id = (
 15                      SELECT
 16                          town_id
 17                      FROM
 18                          town
 19                      WHERE
 20                              town_lat = - 17.9644
 21                          AND town_long = 122.2304
 22                  )
 23          )
```

error occurred here due to trigger changed?

can directly use total_cost + 220

better to use upper

```
  24         AND cabin_no = 4
  25         AND booking_from = TO_DATE('26-May-2023', 'dd-mon-yyyy');

0 rows updated.
```

no rows updated

```
SQL>
SQL> COMMIT;

Commit complete.

SQL>
SQL> --3(e)
SQL> DELETE FROM booking
  2   WHERE
  3           resort_id = (
  4               SELECT
  5                   resort_id
  6               FROM
  7                   resort
  8               WHERE
  9                       initcap(resort_name) = 'Awesome Resort'
 10                   AND town_id = (
 11                       SELECT
 12                           town_id
 13                       FROM
 14                           town
 15                       WHERE
 16                               town_lat = - 17.9644
 17                           AND town_long = 122.2304
 18                   )
 19           )
 20       AND cabin_no = 4;
```

better to use upper

no rows deleted

```
0 rows deleted.

SQL>
SQL> DELETE FROM cabin
  2   WHERE
  3           resort_id = (
  4               SELECT
  5                   resort_id
  6               FROM
  7                   resort
  8               WHERE
  9                       initcap(resort_name) = 'Awesome Resort'
 10                   AND town_id = (
 11                       SELECT
 12                           town_id
 13                       FROM
 14                           town
 15                       WHERE
 16                               town_lat = - 17.9644
 17                           AND town_long = 122.2304
 18                   )
 19           )
 20       AND cabin_no = 4;
```

```
1 row deleted.

SQL>
SQL> COMMIT;

Commit complete.

SQL>
SQL> set echo on
SQL> ------------- Task 4 ALTER -------------------------------------------------
SQL> @T4-tsa-alter.sql
SQL> --*****PLEASE ENTER YOUR DETAILS BELOW*****
SQL> --T4-tsa-alter.sql
SQL>
SQL> --Student ID:33429472
SQL> --Student Name:Ziqi Pei
SQL> --Unit Code:FIT9132
SQL> --Applied Class No:A12
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>
SQL>*/
SQL> --4(a)
SQL> ALTER TABLE cabin ADD total_bookings NUMBER(4) DEFAULT 0;   Missing not null

Table CABIN altered.

SQL>
SQL> UPDATE cabin
  2  SET
  3      total_bookings = (
  4          SELECT
  5              COUNT(*)
  6          FROM
  7              booking
  8          WHERE
  9                  cabin.resort_id = booking.resort_id
 10              AND cabin.cabin_no = booking.cabin_no
 11      );

47 rows updated.

SQL> -- Show data changes
SQL> SELECT
  2      *
  3  FROM
  4      cabin;

 RESORT_ID   CABIN_NO CABIN_NOBEDROOMS CABIN_SLEEPING_CAPACITY C CABIN_POINTS_COST_DAY CABIN_DESCRIPTION

                                                               TOTAL_BOOKINGS
---------- ---------- ---------------- ----------------------- - -------------------- ------------------------------------------------
```

-- --------------

7	2	2	5 C	150	wood burning fireplace and kitchen with refrigerator, stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.	0
7	3	2	4 C	150	wood burning fireplace and kitchen with refrigerator, stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.	0
7	4	2	5 C	150	wood burning fireplace and kitchen with refrigerator, stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.	0
8	1	3	7 I	210	kitchen with refrigerator and stove/oven. wood burning fireplace. free Wi-Fi.	0
8	2	3	6 I	210	kitchen with refrigerator and stove/oven. wood burning fireplace. free Wi-Fi.	2
8	3	1	2 C	80	kitchen with refrigerator and stove/oven. wood burning fireplace. free Wi-Fi.	0
8	4	1	3 C	80	kitchen with refrigerator and stove/oven. wood burning fireplace. free Wi-Fi.	0
9	1	2	4 I	110	Free wi-fi. kitchen with refrigerator, stove, microwave, pots and pans, silverware, toaster and utensils.	1
9	2	2	4 I	110	Free Wi-Fi. kitchen with refrigerator, stove, microwave, pots and pans, silverware, toaster and utensils.	0
9	3	2	4 I	110	Free wi-fi. kitchen with refrigerator, stove, microwave, pots and pans, silverware, toaster and utensils.	0
10	1	2	6 C	185	kitchen with refrigerator and stove/oven. wood burning fireplace. free Wi-Fi.	0
10	2	2	6 C	185	kitchen with refrigerator and stove/oven. wood burning fireplace. free Wi-Fi.	0
10	3	3	7 I	235	kitchen with refrigerator and stove/oven. wood burning fireplace. free Wi-Fi.	0
1	1	2	5 I	100	spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.	1
1	2	3	6 I	175	spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.	0
1	3	2	5 I	100	spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.	0
1	4	3	7 I	175	spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.	3
1	5	2	5 I	100	spacious living room/dining areas, modern kitchen, updated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.	0

Assignment 2A Feedback

```
      1         6          3                    7 I              175 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.          0
      1         7          2                    4 C               75 spacious living room/dining areas, modern kitchen, la
rge bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and
charcoal and gas grills provided.          0
      1         8          2                    5 I              100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.          0
      1         9          4                    7 I              225 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.          0
      1        10          2                    4 C               75 spacious living room/dining areas, modern kitchen, la
rge bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and
charcoal and gas grills provided.          0
      1        11          1                    2 C               60 living room/dining areas, large bedroom with firm mem
ory-foam beds and upscale bedding. Fresh linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas gri
lls provided.          0
      1        12          1                    2 C               60 living room/dining areas, large bedroom with firm mem
ory-foam beds and upscale bedding. Fresh linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas gri
lls provided.          0
      2         1          2                    5 C               90 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                 1
      2         2          2                    5 C               90 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                 0
      2         3          2                    5 C               90 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                 0
      3         1          1                    2 C               75 wood burning fireplace and kitchen with refrigerator,
stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils.
                                                                 3
      3         2          1                    2 C               75 wood burning fireplace and kitchen with refrigerator,
stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils.
                                                                 0
      3         3          2                    5 I              160 wood burning fireplace and kitchen with refrigerator,
stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
Queen or double hide-a-bed in living room.          0
      3         4          2                    4 I              150 wood burning fireplace and kitchen with refrigerator,
stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
Queen or double hide-a-bed in living room.          0
      4         1          1                    2 I               75 bedrooms with firm memory-foam beds and bedding. Line
ns, blankets, towels, and pillows provided.
                                                                 0
      4         2          1                    3 I               85 bedrooms with firm memory-foam beds and bedding. Line
ns, blankets, towels, and pillows provided.
                                                                 0
      4         3          2                    5 I              140 bedrooms with firm memory-foam beds and bedding. Line
ns, blankets, towels, and pillows provided.
                                                                 2
      5         1          3                    6 I              170 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.          0
      5         2          2                    4 I              110 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
```

```
s, fire rings, and charcoal and gas grills provided.                        0
         5         3         1              3 C              80 living room/dining area, modern kitchen. Linens, blan
kets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
                                                                            0
         5         4         1              3 C              80 living room/dining area, modern kitchen. Linens, blan
kets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
                                                                            0
         5         5         2              4 I             110 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                        0
         5         6         3              7 I             180 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                        1
         5         7         3              7 I             180 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                        0
         6         1         3              6 I             165 Free Wi-Fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                            0
         6         2         3              6 I             165 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                            0
         6         3         2              5 I             125 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                            3
         6         4         2              5 I             125 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                            1
         7         1         2              4 C             150 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
                                                                            2

47 rows selected.

SQL>
SQL> -- Show table structure changes
SQL> DESC cabin;
Name                    Null?    Type
----------------------- -------- -------------
RESORT_ID               NOT NULL NUMBER(4)
CABIN_NO                NOT NULL NUMBER(3)
CABIN_NOBEDROOMS        NOT NULL NUMBER(1)
CABIN_SLEEPING_CAPACITY NOT NULL NUMBER(2)
CABIN_BATHROOM_TYPE     NOT NULL CHAR(1)
CABIN_POINTS_COST_DAY   NOT NULL NUMBER(4)
CABIN_DESCRIPTION       NOT NULL VARCHAR2(250)
TOTAL_BOOKINGS                   NUMBER(4)
SQL>
SQL> --4(b)
SQL> DROP TABLE role CASCADE CONSTRAINTS PURGE;

Table ROLE dropped.

SQL>
SQL> CREATE TABLE role (
  2      role_id   CHAR(1) NOT NULL,
```

```
  3       role_name VARCHAR2(30) NOT NULL,
  4       role_desc VARCHAR2(100) NOT NULL
  5   );

Table ROLE created.

SQL>
SQL> COMMENT ON COLUMN role.role_id IS
  2       'Identifier for staff roles';

Comment created.

SQL>
SQL> COMMENT ON COLUMN role.role_name IS
  2       'Name for staff roles';

Comment created.

SQL>
SQL> COMMENT ON COLUMN role.role_desc IS
  2       'Job description for staff roles';

Comment created.

SQL>
SQL> INSERT INTO role VALUES (
  2       'A',
  3       'Admin',
  4       'Take bookings and reply to customer inquiries'
  5   );

1 row inserted.

SQL>
SQL> INSERT INTO role VALUES (
  2       'C',
  3       'Cleaning',
  4       'Clean cabins and maintain resort''s public area'
  5   );

1 row inserted.

SQL>
SQL> INSERT INTO role VALUES (
  2       'M',
  3       'Marketing',
  4       'Prepare and present marketing ideas and deliverables'
  5   );

1 row inserted.

SQL>
SQL> ALTER TABLE staff ADD role_id CHAR(1);

Table STAFF altered.
```

should also add fk constraint

```
SQL>
SQL> UPDATE staff
  2  SET
  3      role_id = 'A';

18 rows updated.

SQL> -- Show the changes in the role table
SQL> DESC role;
Name       Null?    Type
---------- -------- -------------
ROLE_ID   NOT NULL CHAR(1)
ROLE_NAME NOT NULL VARCHAR2(30)
ROLE_DESC NOT NULL VARCHAR2(100)
SQL>
SQL> SELECT
  2      *
  3  FROM
  4      role;

R ROLE_NAME                      ROLE_DESC
- ------------------------------ ----------------------------------------------------------------------------------
A Admin                          Take bookings and reply to customer inquiries
C Cleaning                       Clean cabins and maintain resort's public area
M Marketing                      Prepare and present marketing ideas and deliverables

SQL>
SQL> -- Show the changes in the staff table
SQL> DESC staff;
Name        Null?    Type
----------- -------- ------------
STAFF_ID    NOT NULL NUMBER(5)
STAFF_GNAME          VARCHAR2(25)
STAFF_FNAME          VARCHAR2(25)
STAFF_PHONE NOT NULL CHAR(10)
RESORT_ID   NOT NULL NUMBER(4)
ROLE_ID              CHAR(1)
SQL>
SQL> SELECT
  2      staff_id,
  3      role_id
  4  FROM
  5      staff;

  STAFF_ID R
---------- -
         1 A
         2 A
         3 A
         4 A
         5 A
         6 A
         7 A
         8 A
         9 A
        10 A
```

```
        11 A
        12 A
        13 A
        14 A
        15 A
        16 A
        17 A
        18 A

18 rows selected.

SQL>
SQL> --4(c)
SQL> -- Drop existing tables
SQL> DROP TABLE cleaning CASCADE CONSTRAINTS;

Table CLEANING dropped.

SQL>
SQL> DROP TABLE staff_cleaning CASCADE CONSTRAINTS;

Table STAFF_CLEANING dropped.

SQL>
SQL> -- Create the cleaning table
SQL> CREATE TABLE cleaning (
  2      cleaning_no   NUMBER(8) NOT NULL,
  3      resort_id     NUMBER(4) NOT NULL,
  4      cabin_no      NUMBER(3) NOT NULL,
  5      cleaning_date DATE NOT NULL,
  6      CONSTRAINT cleaning_pk PRIMARY KEY ( cleaning_no ),
  7      CONSTRAINT cleaning_cabin_fk FOREIGN KEY ( resort_id,     should use table constraint
  8                                           cabin_no )
  9          REFERENCES cabin ( resort_id,
 10                              cabin_no )
 11  );

Table CLEANING created.

SQL>                                                   missing unique constraint for resort_id, cabin_no and cleaning_date
SQL> -- Add comments for cleaning table columns
SQL> COMMENT ON COLUMN cleaning.cleaning_no IS
  2      'Surrogate key added to replace CLEANING composite PK';

Comment created.

SQL>
SQL> COMMENT ON COLUMN cleaning.resort_id IS
  2      'Resort identifier for this cleaning';

Comment created.

SQL>
SQL> COMMENT ON COLUMN cleaning.cabin_no IS
  2      'Cabin number within the resort for this cleaning';
```

```
Comment created.

SQL>
SQL> COMMENT ON COLUMN cleaning.cleaning_date IS
  2      'Cleaning Date';

Comment created.

SQL>
SQL> -- Create the staff_cleaning table
SQL> CREATE TABLE staff_cleaning (
  2      staff_id      NUMBER(5) NOT NULL,
  3      cleaning_no   NUMBER(8) NOT NULL,
  4      cleaning_start DATE,
  5      cleaning_end   DATE,
  6      CONSTRAINT sc_staff_fk FOREIGN KEY ( staff_id )
  7          REFERENCES staff ( staff_id ),
  8      CONSTRAINT sc_cleaning_fk FOREIGN KEY ( cleaning_no )
  9          REFERENCES cleaning ( cleaning_no )
 10  );
```

should use table constraint

```
Table STAFF_CLEANING created.

SQL>
SQL> -- Add comments for staff_cleaning table columns
SQL> COMMENT ON COLUMN staff_cleaning.staff_id IS
  2      'Staff identifier for this assignment';

Comment created.

SQL>
SQL> COMMENT ON COLUMN staff_cleaning.cleaning_no IS
  2      'Cleaning identifier for this assignment';

Comment created.

SQL>
SQL> COMMENT ON COLUMN staff_cleaning.cleaning_start IS
  2      'Cleaning start time';

Comment created.

SQL>
SQL> COMMENT ON COLUMN staff_cleaning.cleaning_end IS
  2      'Cleaning end time';

Comment created.

SQL>
SQL> -- Describe the cleaning table
SQL> desc cleaning;
Name          Null?    Type
------------- -------- ---------
CLEANING_NO   NOT NULL NUMBER(8)
RESORT_ID     NOT NULL NUMBER(4)
CABIN_NO      NOT NULL NUMBER(3)
```

Assignment 2A Feedback

```
CLEANING_DATE NOT NULL DATE
SQL>
SQL> -- Describe the staff_cleaning table
SQL> desc staff_cleaning;
Name             Null?     Type
-------------- -------- ---------
STAFF_ID         NOT NULL NUMBER(5)
CLEANING_NO      NOT NULL NUMBER(8)
CLEANING_START            DATE
CLEANING_END              DATE
SQL>
SQL> set echo on
SQL> -- CABIN Table
SQL> set echo off

 RESORT_ID   CABIN_NO CABIN_NOBEDROOMS CABIN_SLEEPING_CAPACITY C CABIN_POINTS_COST_DAY CABIN_DESCRIPTION

                                                                    TOTAL_BOOKINGS
---------- ---------- ---------------- ---------------------- - -------------------- ------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------- --------------
         1          1                2                      5 I                  100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                   1
         1          2                3                      6 I                  175 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                   0
         1          3                2                      5 I                  100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                   0
         1          4                3                      7 I                  175 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                   3
         1          5                2                      5 I                  100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                   0
         1          6                3                      7 I                  175 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                   0
         1          7                2                      4 C                   75 spacious living room/dining areas, modern kitchen, la
rge bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and
charcoal and gas grills provided.                   0
         1          8                2                      5 I                  100 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                   0
         1          9                4                      7 I                  225 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.                   0
         1         10                2                      4 C                   75 spacious living room/dining areas, modern kitchen, la
rge bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and
charcoal and gas grills provided.                   0
         1         11                1                      2 C                   60 living room/dining areas, large bedroom with firm mem
ory-foam beds and upscale bedding. Fresh linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas gri
lls provided.                   0
         1         12                1                      2 C                   60 living room/dining areas, large bedroom with firm mem
ory-foam beds and upscale bedding. Fresh linens, blankets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas gri
```

```
lls provided.                                                       0
        2         1              2                    5 C                       90 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                    1
        2         2              2                    5 C                       90 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                    0
        2         3              2                    5 C                       90 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                    0
        3         1              1                    2 C                       75 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils.
                                                                    3
        3         2              1                    2 C                       75 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils.
                                                                    0
        3         3              2                    5 I                      160 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
 Queen or double hide-a-bed in living room.                         0
        3         4              2                    4 I                      150 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
 Queen or double hide-a-bed in living room.                         0
        4         1              1                    2 I                       75 bedrooms with firm memory-foam beds and bedding. Line
ns, blankets, towels, and pillows provided.
                                                                    0
        4         2              1                    3 I                       85 bedrooms with firm memory-foam beds and bedding. Line
ns, blankets, towels, and pillows provided.
                                                                    0
        4         3              2                    5 I                      140 bedrooms with firm memory-foam beds and bedding. Line
ns, blankets, towels, and pillows provided.
                                                                    2
        5         1              3                    6 I                      170 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.               0
        5         2              2                    4 I                      110 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.               0
        5         3              1                    3 C                       80 living room/dining area, modern kitchen. Linens, blan
kets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
                                                                    0
        5         4              1                    3 C                       80 living room/dining area, modern kitchen. Linens, blan
kets, towels, and pillows provided. Picnic tables, fire rings, and charcoal and gas grills provided.
                                                                    0
        5         5              2                    4 I                      110 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.               0
        5         6              3                    7 I                      180 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.               1
        5         7              3                    7 I                      180 spacious living room/dining areas, modern kitchen, up
dated bathrooms, large bedrooms with firm memory-foam beds and upscale bedding. Linens, blankets, towels, and pillows provided. Picnic table
s, fire rings, and charcoal and gas grills provided.               0
        6         1              3                    6 I                      165 Free Wi-Fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                                    0
        6         2              3                    6 I                      165 Free wi-fi. kitchen with refrigerator, stove, microwa
```

ve, pots and pans, silverware, toaster and utensils.

```
                                                        0
     6        3          2                 5 I              125 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                        3
     6        4          2                 5 I              125 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                        1
     7        1          2                 4 C              150 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
                                                        2
     7        2          2                 5 C              150 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
                                                        0
     7        3          2                 4 C              150 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
                                                        0
     7        4          2                 5 C              150 wood burning fireplace and kitchen with refrigerator,
 stove/oven, microwave, pots and pans, silverware, toaster, electric coffee pot, and utensils. Cribs, high chairs and roll-a-ways available.
                                                        0
     8        1          3                 7 I              210 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.
                                                        0
     8        2          3                 6 I              210 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.
                                                        2
     8        3          1                 2 C               80 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.
                                                        0
     8        4          1                 3 C               80 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.
                                                        0
     9        1          2                 4 I              110 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                        1
     9        2          2                 4 I              110 Free Wi-Fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                        0
     9        3          2                 4 I              110 Free wi-fi. kitchen with refrigerator, stove, microwa
ve, pots and pans, silverware, toaster and utensils.
                                                        0
    10        1          2                 6 C              185 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.
                                                        0
    10        2          2                 6 C              185 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.
                                                        0
    10        3          3                 7 I              235 kitchen with refrigerator and stove/oven. wood burnin
g fireplace. free Wi-Fi.
                                                        0

47 rows selected.

SQL> -- STAFF Table
SQL> set echo off
```

Assignment 2A Feedback

```
  STAFF_ID STAFF_GNAME              STAFF_FNAME              STAFF_PHON  RESORT_ID R
---------- ------------------------ ------------------------ ---------- ---------- -
         1 Martainn                 Jenteau                  0495300384          1 A
         2 Kipp                                              0468858093          1 A
         3 Jessi                    Allward                  0438843662          2 A
         4 Rosalinda                Zavattiero               0423163212          2 A
         5 Neda                     Mylchreest               0409562816          3 A
         6                          Yakolev                  0496667027          3 A
         7 Weston                   Stearndale               0417905216          3 A
         8 Reeba                    Wildman                  0493427245          4 A
         9 Marlee                   Champerlen               0427832032          4 A
        10 Dorette                                           0487345845          5 A
        11 Westley                  Oakenford                0418289108          6 A
        12                          Moisey                   0429418600          6 A
        13 Jordan                   Woodful                  0432371918          7 A
        14 Archer                   Rylah                    0461987248          7 A
        15 Brodie                   Townsend                 0449543875          8 A
        16 Ella                                              0430090563          8 A
        17 Hunter                   Beach                    0440163890          9 A
        18 Georgia                  Brazier                  0440942117         10 A

18 rows selected.

SQL> -–============================= END RUN =======================================---
SQL> set echo off
```