```
SOL>
SOL>
SQL> select 'skill' as "table name", count(*) from skill
  3 select 'person'as "table name", count(*) from person
  5 select 'personskill' as "table name", count(*) from personskill
  7 select 'coordinator' as "table name", count(*) from coordinator
 9 select 'npo' as "table name", count(*) from npo
 10 union
 11 select 'event' as "table name", count(*) from event
 13 select 'task' as "table name", count(*) from task
 15 select 'training' as "table name", count(*) from training
 16 union
 17 select 'volunteer' as "table name", count(*) from volunteer
 18 union
 19 select 'volunteertraining' as "table name", count(*) from
volunteertraining
 20 union
 21 select 'volunterassignment' as "table name", count(*) from
volunteerassignment;
table name COUNT(*)
_____
skill
person
personskill
                          0
coordinator
                          0
npo
event
task
                          0
training
volunteer
volunteertraining
volunterassignment
11 rows selected.
SQL>
SQL> INSERT INTO skill VALUES (skill t('S01','Assembling','Hands-on tasks
requiring manual dexterity.','Manual'));
1 row created.
SQL> INSERT INTO skill VALUES (skill t('S02','Strength','Performing tasks
that require physical effort.', 'Physical'));
1 row created.
```

```
SQL> INSERT INTO skill VALUES (skill t('S03','Active','Engaging in
energetic activities.','Physical'));
1 row created.
SQL> INSERT INTO skill VALUES (skill t('S04','Verbal
Communication','Clearly and effectively conveying
information.','Communication'));
1 row created.
SQL> INSERT INTO skill VALUES (skill t('S05', 'Compassion', 'Understanding
and supporting the emotional needs of others.', 'Emotional'));
1 row created.
SOL>
SOL>
SQL> ALTER SESSION SET NLS DATE FORMAT = 'YYYY-MM-DD';
Session altered.
SOL>
SOL>
SQL> INSERT INTO person VALUES (person t('P000000001', name t('John',
'M', 'Doe'), '1990-05-15', '123 Street', '4165551234', 'doe@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000002', name t('Jane',
'L', 'Smith'), '1985-07-20', '456 Avenue', '9055555678',
'smith@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000003', name t('Alice',
'S', 'Johnson'), '2000-01-25', '789 Road', '6135557890',
'johnson@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000004', name t('Robert',
'M', 'Brown'), '1978-11-11', '321 Crescent', '9055552468',
'brown@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000005', name t('Peter',
'K', 'Lewis'), '1976-04-18', '456 Road', '1234567890',
'lewis@gmail.com'));
1 row created.
```

```
SQL> INSERT INTO person VALUES (person t('P000000006', name t('Emma',
'L', 'Wilson'), '1992-03-10', '987 Lane', '9055553698',
'wilson@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000007', name t('Michael',
'M', 'Davis'), '1983-09-30', '654 Street', '2895552489',
'davis@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000008', name t('Olivia',
'B', 'Taylor'), '1995-12-20', '852 Road', '9055551239',
'taylor@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000009', name t('William',
'T', 'Harris'), '1979-06-17', '741 Boulevard', '9055555679',
'harris@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000010', name t('Sophia',
'A', 'Clark'), '1988-02-25', '363 Crescent', '9055557891',
'clark@gmail.com'));
1 row created.
SQL> INSERT INTO person VALUES (person t('P000000011', name t('Emily',
'A', 'Jones'), '2000-02-25', '12 Lane', '905245678', 'jones@gmail.com'));
1 row created.
SOL>
SOL>
SQL> INSERT INTO personskill VALUES (personskill t('PS00000001',
  2 (SELECT REF(p) FROM person p WHERE p.pid = 'P000000006'),
  3 (SELECT REF(s) FROM skill s WHERE s.skid = 'S01')
  4 ));
1 row created.
SQL> INSERT INTO personskill VALUES (personskill t('PS00000002',
  2 (SELECT REF(p) FROM person p WHERE p.pid = 'P000000007'),
  3 (SELECT REF(s) FROM skill s WHERE s.skid = 'S02')
  4 ));
1 row created.
SQL> INSERT INTO personskill VALUES (personskill t('PS00000003',
  2 (SELECT REF(p) FROM person p WHERE p.pid = 'P000000008'),
  3 (SELECT REF(s) FROM skill s WHERE s.skid = 'S03')
```

```
4 ));
1 row created.
SQL> INSERT INTO personskill VALUES (personskill t('PS00000004',
  2 (SELECT REF(p) FROM person p WHERE p.pid = "P000000009"),
  3 (SELECT REF(s) FROM skill s WHERE s.skid = 'S04')
  4 ));
1 row created.
SQL> INSERT INTO personskill VALUES (personskill t('PS00000005',
  2 (SELECT REF(p) FROM person p WHERE p.pid = 'P000000010'),
  3 (SELECT REF(s) FROM skill s WHERE s.skid = 'S05')
  4 ));
1 row created.
SQL> INSERT INTO personskill VALUES (personskill t('PS00000006',
  2 (SELECT REF(p) FROM person p WHERE p.pid = 'P000000011'),
  3 (SELECT REF(s) FROM skill s WHERE s.skid = 'S03')
  4 ));
1 row created.
SQL>
SOL>
SQL> INSERT INTO coordinator VALUES (coordinator t('P000000001',
name t('John', 'M', 'Doe'), DATE '1990-05-15', '123 Street',
'4165551234', 'doe@gmail.com', 'C001', 'Active',
coordinatorcertificate t('CERT001', 'Safety Certificate', 'SC-12345',
DATE '2025-12-31', 'Basic safety training.')));
1 row created.
SQL> INSERT INTO coordinator VALUES (coordinator t('P000000002',
name t('Jane', 'L', 'Smith'), DATE '1985-07-20', '456 Avenue',
'9055555678', 'smith@gmail.com', 'C002', 'Active',
coordinatorcertificate t('CERT002', 'Quality Assurance', 'QA-67890', DATE
'2026-06-30', 'Quality check procedures.')));
1 row created.
SQL> INSERT INTO coordinator VALUES (coordinator t('P000000003',
name t('Alice', 'S', 'Johnson'), DATE '2000-01-25', '789 Road',
'6135557890', 'johnson@gmail.com', 'C003', 'Active',
coordinatorcertificate t('CERT003', 'Environmental Permit', 'EP-23456',
DATE '2025-08-15', 'Environmental compliance.')));
1 row created.
SQL> INSERT INTO coordinator VALUES (coordinator t('P000000004',
name t('Robert', 'M', 'Brown'), DATE '1978-11-11', '321 Crescent',
'9055552468', 'brown@gmail.com', 'C004', 'Inactive',
```

```
coordinatorcertificate t('CERT001', 'Fire Safety', 'FS-78901', DATE
'2025-03-22', 'Fire safety measures.')));
1 row created.
SQL> INSERT INTO coordinator VALUES (coordinator t('P000000005',
name t('Peter', 'K', 'Lewis'), DATE '1976-04-18', '456 Road',
'1234567890', 'lewis@gmail.com', 'C005', 'Inactive',
coordinatorcertificate t('CERT004', 'Operational Training', 'OT-34567',
DATE '2027-11-05', 'Operational best practices.')));
1 row created.
SQL>
SOL>
SQL> INSERT INTO npo VALUES (npo t('N001', 'SickKids Foundation',
'4168131500', 'info@sickkidsfoundation.com'));
1 row created.
SQL> INSERT INTO npo VALUES (npo t('N002', 'PAWS', '4162940088',
'info@paws.org'));
1 row created.
SQL> INSERT INTO npo VALUES (npo t('N003', 'Habitat for Humanity',
'4164224828', 'info@habitat.ca'));
1 row created.
SQL> INSERT INTO npo VALUES (npo t('N004', 'Canadian Red Cross',
'9054181111', 'wecare@redcross.ca'));
1 row created.
SOL>
SOL>
SQL> INSERT INTO event VALUES (
         event t('EVT001', 'SickKids Fun Day', TIMESTAMP '2025-03-29
10:30:00.000000',
         (SELECT REF(n) FROM npo n WHERE n.npoid = 'N001'),
         (SELECT REF(c) FROM coordinator c WHERE c.cid = 'C001'),
         'Planned', 'A day dedicated to providing fun and engaging
activities for children at SickKids Hospital.', 3)
  6);
1 row created.
SQL> INSERT INTO event VALUES (
         event t('EVT002', 'PAWS Adoption Fair', TIMESTAMP '2025-02-02
11:30:00.000001',
        (SELECT REF(n) FROM npo n WHERE n.npoid = 'N002'),
         (SELECT REF(c) FROM coordinator c WHERE c.cid = 'C002'),
```

```
'Completed', 'An event to promote pet adoption and educate the
community about pet welfare.', 4)
  6);
1 row created.
SQL> INSERT INTO event VALUES (
         event t('EVT003', 'Habitat Build-A-Home', TIMESTAMP '2025-01-23
10:30:00.000002',
         (SELECT REF(n) FROM npo n WHERE n.npoid = 'N003'),
         (SELECT REF(c) FROM coordinator c WHERE c.cid = 'C003'),
         'Planned', 'A construction event where volunteers work together
to build a home for a family in need.', 2)
 6);
1 row created.
SOL> INSERT INTO event VALUES (
         event t('EVT004', 'Safety Fair', TIMESTAMP '2025-04-23
12:30:00.000003',
         (SELECT REF(n) FROM npo n WHERE n.npoid = 'N004'),
         (SELECT REF(c) FROM coordinator c WHERE c.cid = 'C001'),
         'Planned', 'A community event focused on disaster preparedness
and safety.', 1)
 6);
1 row created.
SQL>
SOL>
SQL> INSERT INTO volunteer VALUES (volunteer t('P000000006',
name t('Emma', 'L', 'Wilson'), DATE '1992-03-10', '987 Lane',
'9055553698', 'wilson@gmail.com', 'V001', 'Active'));
1 row created.
SQL> INSERT INTO volunteer VALUES (volunteer t('P000000007',
name t('Michael', 'M', 'Davis'), DATE '1983-09-30', '654 Street',
'2895552489', 'davis@gmail.com', 'V002', 'Active'));
1 row created.
SQL> INSERT INTO volunteer VALUES (volunteer t('P000000008',
name_t('Olivia', 'B', 'Taylor'), DATE '1995-12-20', '852 Road',
'9055551239', 'taylor@gmail.com', 'V003', 'Active'));
1 row created.
SQL> INSERT INTO volunteer VALUES (volunteer t('P000000009',
name t('William', 'T', 'Harris'), DATE '1979-06-17', '741 Boulevard',
'9055555679', 'harris@gmail.com', 'V004', 'Active'));
1 row created.
```

```
SQL> INSERT INTO volunteer VALUES (volunteer t('P000000010',
name t('Sophia', 'A', 'Clark'), DATE '1988-02-25', '363 Crescent',
'9055557891', 'clark@gmail.com', 'V005', 'Active'));
1 row created.
SQL> INSERT INTO volunteer VALUES (volunteer t('P000000011',
name t('Emily', 'A', 'Jones'), DATE '2000-02-25', '12 Lane', '905245678',
'jones@gmail.com', 'V006', 'Inactive'));
1 row created.
SQL>
SQL>
SQL> INSERT INTO task VALUES (task t('TSK001', 'Event Setup', 'Assisting
with setting up events.'));
1 row created.
SQL> INSERT INTO task VALUES (task t('TSK002', 'Activity Assistance',
'Helping with activity stations.'));
1 row created.
SQL> INSERT INTO task VALUES (task t('TSK003', 'Patient Companion',
'Spend time with patients, providing company and engaging in
conversations.'));
1 row created.
SQL> INSERT INTO task VALUES (task t('TSK004', 'Pet Walker', 'Take dogs
for walks to ensure they get enough exercise.'));
1 row created.
SQL> INSERT INTO task VALUES (task t('TSK005', 'Emergency Supply Kits',
'Assist in assembling emergency supply kits for disaster relief
efforts.'));
1 row created.
SQL> INSERT INTO task VALUES (task_t('TSK006', 'Pet Enclosures', 'Assist
in assembling temporary enclosures for animals at adoption events.'));
1 row created.
SQL> INSERT INTO task VALUES (task t('TSK007', 'Gift Assembly', 'Help put
together gift bags for children at the hospital.'));
1 row created.
SQL> INSERT INTO task VALUES (task t('TSK008', 'Furniture Moving',
'Assist in moving and arranging large furniture pieces for newly built
homes.'));
```

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1 row created.
SQL> INSERT INTO task VALUES (task t('TSK009', 'Storytime Volunteer',
'Read books to children , engaging them with stories and
conversation.'));
1 row created.
SOL>
SOL>
SQL> INSERT INTO training VALUES (training t('TR10000001', 'Event Setup
Essentials',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK001'),
  3 'Core skills for arranging equipment and decor.', 10.00));
1 row created.
SQL> INSERT INTO training VALUES (training t('TR10000002', 'Communication
101',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK002'),
  3 'Learn basics of effective communication.', 6.00));
1 row created.
SQL> INSERT INTO training VALUES (training t('TR10000003', 'Supportive
Interaction',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK003'),
  3 'Learn advanced techniques for great communication.', 9.00));
1 row created.
SQL> INSERT INTO training VALUES (training t('TR10000004', 'Pet Walking
Basics',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK004'),
  3 'Learn essential pet walking tips and tricks.', 15.00));
1 row created.
SQL> INSERT INTO training VALUES (training t('TR10000005', 'Emergency
Essentials',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK005'),
  3 'Learn key components and uses of emergency kits.', 11.00));
1 row created.
SQL> INSERT INTO training VALUES (training t('TR10000006', 'Pet Care
Basics',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK006'),
  3 'Learn pet care basics for happy, healthy pets.', 15.00));
1 row created.
```

```
SQL> INSERT INTO training VALUES (training t('TR10000007', 'Children Gift
Bag Assembly',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK007'),
  3 'Learn how to assemble and decorate gift bags', 2.00));
1 row created.
SQL> INSERT INTO training VALUES (training t('TR10000008', 'Safe
Furniture Moving',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK008'),
  3 'Learn techniques to move furniture safely.', 3.00));
1 row created.
SQL> INSERT INTO training VALUES (training t('TR10000009', 'Engaging
Storytelling',
  2 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK009'),
  3 'Learn to tell engaging stories to delight kids.', 2.00));
1 row created.
SOL>
SOL>
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000001',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V004'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000001'),
  4 1, DATE '2025-01-01'));
1 row created.
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000002',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V003'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000002'),
  4 1, DATE '2025-01-02'));
1 row created.
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000003',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V001'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000003'),
  4 1, DATE '2025-01-03'));
1 row created.
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000004',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V005'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000004'),
  4 1, DATE '2025-01-04'));
1 row created.
```

```
SOL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000005',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V002'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000005'),
  4 1, DATE '2025-01-05'));
1 row created.
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000006',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V002'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000006'),
  4 1, DATE '2025-01-06'));
1 row created.
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000007',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V002'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000007'),
  4 1, DATE '2025-01-07'));
1 row created.
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000008',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V004'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000008'),
  4 1, DATE '2025-01-08'));
1 row created.
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000009',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V003'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000009'),
  4 1, DATE '2025-01-09'));
1 row created.
SQL> INSERT INTO volunteertraining VALUES
(volunteertraining t('VT10000010',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V006'),
  3 (SELECT REF(t) FROM training t WHERE t.trid = 'TR10000010'),
  4 0, DATE '2025-01-10'));
1 row created.
SQL>
SQL>
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000001',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V001'),
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3 (SELECT REF(e) FROM event e WHERE e.eid = 'EVT001'),
    (SELECT REF(t) FROM task t WHERE t.tid = 'TSK003'),
  5 12.50, 4.50, 'Great effort!'));
1 row created.
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000002',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V002'),
    (SELECT REF(e) FROM event e WHERE e.eid = 'EVT001'),
  4 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK007'),
  5 8.00, 3.75, 'Good work!'));
1 row created.
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000003',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V002'),
  3 (SELECT REF(e) FROM event e WHERE e.eid = 'EVT002'),
  4 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK006'),
  5 10.25, 4.00, 'Well done!'));
1 row created.
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000004',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V002'),
  3 (SELECT REF(e) FROM event e WHERE e.eid = 'EVT004'),
  4 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK005'),
  5 15.75, 4.80, 'Excellent performance!'));
1 row created.
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000005',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V003'),
  3 (SELECT REF(e) FROM event e WHERE e.eid = 'EVT002'),
    (SELECT REF(t) FROM task t WHERE t.tid = 'TSK002'),
  5 7.50, 3.75, 'Good work!'));
1 row created.
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000006',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V003'),
  3 (SELECT REF(e) FROM event e WHERE e.eid = 'EVT001'),
  4 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK009'),
  5 9.00, 4.25, 'Good Job!'));
1 row created.
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000007',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V004'),
```

```
3 (SELECT REF(e) FROM event e WHERE e.eid = 'EVT002'),
    (SELECT REF(t) FROM task t WHERE t.tid = 'TSK001'),
  5 6.75, 4.60, 'Great work!'));
1 row created.
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000009',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V004'),
    (SELECT REF(e) FROM event e WHERE e.eid = 'EVT003'),
  4 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK008'),
  5 13.25, 4.00, 'Well done!'));
1 row created.
SQL> INSERT INTO volunteerassignment VALUES
(volunteerassignment t('VA10000010',
  2 (SELECT REF(v) FROM volunteer v WHERE v.vid = 'V005'),
  3 (SELECT REF(e) FROM event e WHERE e.eid = 'EVT002'),
  4 (SELECT REF(t) FROM task t WHERE t.tid = 'TSK004'),
  5 10.50, 4.20, 'Nice effort!'));
1 row created.
SQL>
SQL>
SQL> COMMIT;
Commit complete.
SOL>
SOL>
SQL> select 'skill' as "table name", count(*) from skill
  2 union
  3 select 'person'as "table name", count(*) from person
  5 select 'personskill' as "table name", count(*) from personskill
  6 union
  7 select 'coordinator' as "table name", count(*) from coordinator
  9 select 'npo' as "table name", count(*) from npo
 10 union
 11 select 'event' as "table name", count(*) from event
 13 select 'task' as "table name", count(*) from task
 14 union
 15 select 'training' as "table name", count(*) from training
 16 union
 17 select 'volunteer' as "table name", count(*) from volunteer
 18 union
 19 select 'volunteertraining' as "table name", count(*) from
volunteertraining
 20 union
```

21 select 'volunterassignment' as "table name", count(*) from volunteerassignment;

table name	COUNT(*)
skill	5
person	11
personskill	6
coordinator	5
npo	4
event	4
task	9
training	9
volunteer	6
volunteertraining	10
volunterassignment	9

11 rows selected.

SQL>

SQL>

SQL>

SQL> SPOOL OFF