CREATE DATABASE test;

DROP DATABASE test;

CREATE DATABASE record\_company;

USE record\_company;

CREATE TABLE test (test\_column INT);

ALTER TABLE test ADD another\_column VARCHAR(255);

DROP TABLE test;

CREATE TABLE bands (id INT NOT NULL AUTO\_INCREMENT, name VARCHAR(255) NOT NULL, PRIMARY KEY (id));

CREATE TABLE albums (id INT NOT NULL AUTO\_INCREMENT, name VARCHAR(255) NOT NULL, release\_year INT, band\_id INT NOT NULL, PRIMARY KEY (id), FOREIGN KEY (band\_id) REFERENCES bands(id));

INSERT INTO bands (name) VALUES ('Iron Maiden');

INSERT INTO bands (name) VALUES ('Deuce'), ('Avenged Sevenfold'), ('Ankor');

SELECT \* FROM bands;

SELECT \* FROM bands LIMIT 2;

SELECT name FROM bands;

SELECT id AS 'ID', name AS 'Band Name' FROM bands;

SELECT \* FROM bands ORDER BY name;

SELECT \* FROM bands ORDER BY name DESC;

INSERT INTO albums (name, release\_year, band\_id) VALUES ('The Number of the Beasts', 1985, 1), ('Power Slave', 1984, 1), ('Nightmare', 2018, 2), ('Nightmare', 2010, 3), ('Test Album', NULL, 3);

SELECT \* FROM albums;

SELECT name FROM albums;

SELECT DISTINCT name FROM albums;

UPDATE albums SET release\_year = 1982 WHERE id = 1;

SELECT \* FROM albums WHERE release\_year < 2000;

SELECT \*FROM albums WHERE name LIKE ‘%er%’;

SELECT \*FROM albums WHERE name LIKE ‘%er%’ OR band\_id = 2;

SELECT \* FROM albums WHERE release\_year = 1984 AND band\_id = 1;

SELECT \* FROM albums WHERE release\_year BETWEEN 2000 AND 2018;

SELECT \* FROM albums WHERE release\_year IS NULL;

DELETE FROM albums WHERE id = 5;

SELECT \* FROM albums;

SELECT \* FROM bands JOIN albums ON bands.id = albums.band\_id;

SELECT \* FROM bands INNER JOIN albums ON bands.id = albums.band\_id;

SELECT \* FROM bands LEFT JOIN albums ON bands.id = albums.band\_id;

SELECT \* FROM bands RIGHT JOIN albums ON bands.id = albums.band\_id;

SELECT \* FROM albums JOIN bands ON bands.id = albums.band\_id;

SELECT AVG(release\_year) FROM albums;

SELECT SUM(release\_year) FROM albums;

SELECT band\_id, COUNT(band\_id) FROM albums GROUP BY band\_id;

SELECT b.name AS band\_name, COUNT(a.id) AS num\_albums FROM bands AS b LEFT JOIN albums AS a ON b.id = a.band\_id GROUP BY b.id;

SELECT b.name AS band\_name, COUNT(a.id) AS num\_albums FROM bands AS b LEFT JOIN albums AS a ON b.id = a.band\_id GROUP BY b.id HAVING num\_albums = 1;

SELECT b.name AS band\_name, COUNT(a.id) AS num\_albums FROM bands AS b LEFT JOIN albums AS a ON b.id = a.band\_id Where b.name = ‘Deuce’ GROUP BY b.id HAVING num\_albums = 1;

