**Lesson 1**

1. Select title from Movies
2. Select director from Movies
3. Select title,director from Movies
4. Select title,year from Movies
5. Select \* from Movies

**Lesson 2**

1. SELECT \* FROM movies WHERE Id = 6
2. SELECT \* FROM movies WHERE Year BETWEEN 2000 AND 2010
3. SELECT \* FROM movies WHERE Year NOT BETWEEN 2000 AND 2010
4. SELECT title,year FROM movies WHERE id <6

**Lesson 3**

1. SELECT \* FROM movies WHERE title LIKE '%Toy%'
2. SELECT \* FROM movies WHERE director = 'John Lasseter'
3. SELECT Movies,director FROM movies WHERE director != 'John Lasseter'
4. SELECT \* FROM movies WHERE title LIKE 'WALL-\_**'**

**Lesson 4**

1. SELECT DISTINCT director FROM movies ORDER BY director ASC;
2. SELECT \* FROM movies ORDER BY year DESC LIMIT 4
3. SELECT \* FROM movies ORDER BY title ASC LIMIT 5 OFFSET 1;
4. SELECT \* FROM movies ORDER BY title ASC LIMIT 5 OFFSET 5;

**Review Task**

1. SELECT city,population FROM north\_american\_cities WHERE country = 'Canada';
2. SELECT \* FROM north\_american\_cities WHERE BY latitude DESC
3. SELECT city, longitude FROM north\_american\_cities WHERE longitude < -87.629798 ORDER BY longitude ASC;
4. SELECT city FROM North\_american\_cities WHERE country = "Mexico" ORDER BY population DESC LIMIT 2
5. SELECT city FROM North\_american\_cities WHERE country = "United States" ORDER BY population DESC LIMIT 2 OFFSET 2

**Lesson 6 INNER JOIN**

1. SELECT title, domestic\_sales, international\_sales FROM movies JOIN boxoffice ON movies.id = boxoffice.movie\_id;
2. SELECT title, domestic\_sales, international\_sales FROM movies JOIN boxoffice ON movies.id = boxoffice.movie\_id WHERE international\_sales > domestic\_sales;
3. SELECT title, rating FROM movies JOIN boxoffice ON movies.id = boxoffice.movie\_id
4. ORDER BY Rating DESC

**Lesson 7 OUTER JOIN**

SELECT DISTINCT building FROM employees;

SELECT \* FROM Buildings;

SELECT DISTINCT Role, Building\_name FROM Buildings LEFT JOIN Employees ON Buildings.Building\_name = Employees.Building;

**Lesson 8 IS NULL/IS NOT NULL**

1. SELECT Role,Name FROM employees WHERE Building IS NULL;
2. SELECT DISTINCT building\_name FROM buildings LEFT JOIN employees ON building\_name = building WHERE role IS NULL;

**Lesson 9 EXPRESSION**

1. SELECT title, (Domestic\_sales + International\_sales)/1000000 AS millions FROM movies LEFT JOIN Boxoffice ON movies.ID = Boxoffice.Movie\_id;
2. SELECT title, Rating\*10 AS Rating\_Percentage FROM movies JOIN Boxoffice ON movies.ID = Boxoffice.Movie\_id;
3. SELECT title, Year AS Even\_Years FROM movies JOIN Boxoffice ON movies.ID = Boxoffice.Movie\_id WHERE (Year%2 == 0);

**Lesson 10 AGG\_FUNC**

1. SELECT MAX(Years\_employed) as longest\_time FROM employees;
2. SELECT Role,AVG(years\_employed) as longest\_time FROM employees GROUP BY Role;
3. SELECT Building,SUM(Years\_employed) as Total\_Years FROM employees GROUP BY Building;

**Lesson 11 COUNT**

1. SELECT COUNT(Role) FROM employees WHERE Role == 'Artist'
2. SELECT Role,Name, COUNT(Name) as No\_of\_Emp FROM employees GROUP BY Role
3. SELECT SUM(Years\_Employed) as Tot\_Years FROM Employees WHERE Role == 'Engineer' GROUP BY Role ;

**Lesson 12 ORDER OF EXECUTION**

1. SELECT Director,COUNT(Director) FROM movies GROUP BY Director;
2. SELECT Director,SUM(Domestic\_sales+International\_sales) FROM Boxoffice JOIN Movies ON Movies.ID = Boxoffice.Movie\_Id GROUP BY Director;

**Lesson 13 INSERTING ROWS**

1. INSERT INTO Movies VALUES(4,'Toy Story 4','Andrew',1991,97);
2. INSERT INTO Boxoffice VALUES(4,8.7,270000000,340000000);

**Lesson 14 UPDATING ROWS**

1. UPDATE Movies SET Director = 'John Lasseter' WHERE Title ="A Bug's Life"
2. UPDATE Movies SET Year = 1999 WHERE Title ="Toy Story 2"
3. UPDATE movies SET title = "Toy Story 3", director = "Lee Unkrich" WHERE id = 11;

**Lesson 15 DELETE ROWS**

1. DELETE FROM Movies WHERE year < 2005
2. DELETE FROM Movies WHERE Director = 'Andrew Stanton'

**Lesson 16 CREATING TABLES**

1. CREATE TABLE Database(Name varchar(255),Version int,Download\_count int)

**Lesson 17 ALTERING TABLES**

1. ALTER TABLE Movies ADD Aspect\_ratio float
2. ALTER TABLE Movies ADD Language VARCHAR(255) DEFAULT 'English'

**Lesson 18 DROP TABLE**

1. DROP TABLE Movies
2. DROP TABLE Boxoffice