**EXERCISE - 2**

**Question 1: Students Table** Create a table named **Students** with the following columns:

· **student\_id** as the primary key

· **first\_name** of type VARCHAR2 with a maximum length of 50 (not null)

· **last\_name** of type VARCHAR2 with a maximum length of 50 (not null)

· **birthdate** of type DATE (not null)

**Question 2: Products Table** Create a table named **Products** with the following columns:

· **product\_id** as the primary key

· **product\_name** of type VARCHAR2 with a maximum length of 100 (not null)

· **price** of type NUMBER with precision 10 and scale 2 (not null)

· **quantity\_in\_stock** of type NUMBER with precision 5 (not null)

**Question 3: Employees Table** Create a table named **Employees** with the following columns:

· **employee\_id** as the primary key

· **first\_name** of type VARCHAR2 with a maximum length of 50 (not null)

· **last\_name** of type VARCHAR2 with a maximum length of 50 (not null)

· **hire\_date** of type DATE (not null)

· **salary** of type NUMBER with precision 10 and scale 2 (not null)

**Question 4: Orders Table** Create a table named **Orders** with the following columns:

· **order\_id** as the primary key

· **order\_date** of type DATE (not null)

· **customer\_name** of type VARCHAR2 with a maximum length of 100 (not null)

· **total\_amount** of type NUMBER with precision 10 and scale 2 (not null)

**Question 5: Books Table** Create a table named **Books** with the following columns:

· **book\_id** as the primary key

· **title** of type VARCHAR2 with a maximum length of 200 (not null)

· **author** of type VARCHAR2 with a maximum length of 150 (not null)

· **publication\_date** of type DATE (not null)

· **price** of type NUMBER with precision 10 and scale 2 (not null)

**Students Table:**

1. Insert a new student named "Alice Johnson" with a birthdate of January 5, 2000, into the **Students** table.

2. Add a student record for "Mark Smith" with a birthdate of November 15, 2001, to the **Students** table.

3. Insert the details of a student named "Emily Davis" with a birthdate of April 30, 1999, into the **Students** table.

4. Add a record for "Michael Brown" with a birthdate of July 8, 1998, to the **Students** table.

5. Insert a student named "Sophia Wilson" with a birthdate of September 12, 2002, into the **Students** table.

**Products Table:**

1. Insert a new product named "Tablet" with a price of $299.99 and a quantity in stock of 50 into the **Products** table.

2. Add a product named "Bluetooth Speaker" with a price of $39.99 and a quantity in stock of 150 to the **Products** table.

3. Insert a product named "Camera" with a price of $599.00 and a quantity in stock of 25 into the **Products** table.

4. Add a new product named "External Hard Drive" with a price of $89.50 and a quantity in stock of 80 into the **Products** table.

5. Insert a product named "Wireless Mouse" with a price of $19.99 and a quantity in stock of 200 into the **Products** table.

**Employees Table:**

1. Insert a new employee named "David Johnson" hired on March 10, 2023, with a salary of $55000.00 into the **Employees** table.

2. Add an employee named "Jessica Williams" hired on January 20, 2022, with a salary of $60000.00 to the **Employees** table.

3. Insert an employee named "Daniel Brown" hired on June 5, 2023, with a salary of $48000.00 into the **Employees** table.

4. Add a new employee named "Laura Davis" hired on November 2, 2022, with a salary of $52000.00 into the **Employees** table.

5. Insert an employee named "Matthew Wilson" hired on August 15, 2023, with a salary of $54000.00 into the **Employees** table.

**Orders Table:**

1. Place an order with today's date for a customer named "John Smith" with a total amount of $125.75 in the **Orders** table.

2. Insert an order with today's date for a customer named "Mary Johnson" with a total amount of $95.50 into the **Orders** table.

3. Place an order with today's date for a customer named "Robert Davis" with a total amount of $200.25 in the **Orders** table.

4. Insert an order with today's date for a customer named "Jennifer Wilson" with a total amount of $150.00 into the **Orders** table.

5. Place an order with today's date for a customer named "Emily Brown" with a total amount of $80.99 in the **Orders** table.

**Books Table:**

1. Insert a book titled "1984" by "George Orwell" published on June 8, 1949, with a price of $11.99 into the **Books** table.

2. Add a book titled "Pride and Prejudice" by "Jane Austen" published on January 28, 1813, with a price of $9.50 into the **Books** table.

3. Insert a book titled "The Catcher in the Rye" by "J.D. Salinger" published on July 16, 1951, with a price of $12.25 into the **Books** table.

4. Add a book titled "The Lord of the Rings" by "J.R.R. Tolkien" published on July 29, 1954, with a price of $18.99 into the **Books** table.

5. Insert a book titled "Harry Potter and the Sorcerer's Stone" by "J.K. Rowling" published on June 26, 1997, with a price of $14.50 into the **Books** table.