1. Answer the following questions with either TRUE or FALSE
   a. The following SELECT statement executes successfully:

```
SELECT last_name, job_id, salary AS Sal
FROM employees;
```

Answer: TRUE or FALSE

   b. The following SELECT statement executes successfully:

```
SELECT *
FROM job_grades;
```

Answer: TRUE or FALSE

   c. There are four coding errors in the following statement. Identify these errors.

```
SELECT employee_id, last_name
sal x 12 ANNUAL SALARY
FROM employees;
```

2. Write a query that will display all the columns and data in the JOBS table

	job_id	job_title	min_salary	max_salary
1	AC_ACCOUNT	Public Accountant	4200	9000
2	AC_MGR	Accounting Manager	8200	16000
3	AD_ASST	Administration Assistant	3000	6000
4	AD_PRES	President	20000	40000
5	AD_VP	Administration Vice President	15000	30000
6	FI_ACCOUNT	Accountant	4200	9000
7	FI_MGR	Finance Manager	8200	16000
8	HR_REP	Human Resources Representative	4000	9000

• • • •

19 rows returned

3. Write a query that lists all the different job codes in the JOBS table. You are to rename the column *Job codes*

	Job codes
1	AC_ACCOUNT
2	AC_MGR
3	AD_ASST
4	AD_PRES

• • • •

19 rows returned

4. The HR department would like to have a query to display all unique job codes this time from the EMPLOYEES table

	job_id
1	AC_ACCOUNT
2	AC_MGR
3	AD_ASST
4	AD_PRES

• • • •

19 rows returned

5. You are to create a query that displays the surname, job code, hire date and employee number for each employee. The employee number should appear as the first column in the result. You are to name the hire date column STARTDATE.

	employee_id	last_name	job_id	STARTDATE
1	100	King	AD_PRES	1987-06-17 00:00:00.000
2	101	Kochhar	AD_VP	1989-09-21 00:00:00.000
3	102	De Haan	AD_VP	1993-01-13 00:00:00.000
4	103	Hunold	IT_PROG	1990-01-03 00:00:00.000
• • • •				
106	205	Higgins	AC_MGR	1994-06-07 00:00:00.000
107	206	Gietz	AC_ACCOU...	1994-06-07 00:00:00.000

107 rows returned

6. You are to create a query that will display the Surname and the job code of each employee in the EMPLOYEES table. The column headings should be Surname and Job Code respectively.

	Surname	Job Code
1	King	AD_PRES
2	Kochhar	AD_VP
3	De Haan	AD_VP
4	Hunold	IT_PROG

• • • •

107 rows returned

7. You are to use the query in the previous section, but this time the result should be included in one single column with the surname and the job code separated by a blank space. The column should be named *Employee info*

	Employee info
1	King AD_PRES
2	Kochhar AD_VP
3	De Haan AD_VP
4	Hunold IT_PROG
5	Ernst IT_PROG
6	Austin IT_PROG
7	Pataballa IT_PROG
8	Lorentz IT_PROG
9	Greenberg FI_MGR
10	Faviet FI_ACCOUNT

• • • •

107 rows returned

8. Create a query that will return the unique employee names in the EMPLOYEES table. The column should be named *Name.*

	Name
1	Adam
2	Alana
3	Alberto
4	Alexander
5	Alexis
6	Allan
7	Alyssa

• • • •

91 rows returned

9. Write a query that will display the unique salary in each department through the EMPLOYEES table.

	department_id	salary
1	NULL	7000.00
2	10	4400.00
3	20	6000.00
4	20	13000.00
5	30	2500.00
6	30	2600.00

• • • •

74 rows returned

10. Write a query that will list the following information in a single column:

    Name's telephone number is tel_no.

    Make sure that you rename the column *Contact Info*

	Contact Info
1	Steven's telephone number is 515.123.4567
2	Neena's telephone number is 515.123.4568
3	Lex's telephone number is 515.123.4569
4	Alexander's telephone number is 590.423.4567
5	Bruce's telephone number is 590.423.4568

••••

107 rows returned

11. Write a query that will return the job title (named Job), maximum salary (named Max salary) and a column which calculates a 10% increase of the max salary (10% Increase).

	Job	Max salary	10% Increase
1	Public Accountant	9000	9900.00
2	Accounting Manager	16000	17600.00
3	Administration Assistant	6000	6600.00
4	President	40000	44000.00

••••

19 rows returned

12. The employees in this database have a job review after 30 days of work. You are to write a query that shows the surname, hire_date and review date. Make sure to rename the columns as shown

	Surname	hire_date	Review date
1	King	1987-06-17 00:00:00.000	1987-07-17 00:00:00.000
2	Kochhar	1989-09-21 00:00:00.000	1989-10-21 00:00:00.000
3	De Haan	1993-01-13 00:00:00.000	1993-02-12 00:00:00.000
4	Hunold	1990-01-03 00:00:00.000	1990-02-02 00:00:00.000
5	Ernst	1991-05-21 00:00:00.000	1991-06-20 00:00:00.000

••••

107 rows returned

13. You are to write a query that returns three columns. The first column contains the *Name Details* where the name and surname are placed in a single column separated by a blank space. The second column is the annual salary, which is obtained directly from the EMPLOYEES table. The last column is the monthly salary.

	Name Details	salary	Monthly salary
1	Steven King	24000.00	2000.000000
2	Neena Kochhar	17000.00	1416.666666
3	Lex De Haan	17000.00	1416.666666
4	Alexander Hunold	9000.00	750.000000

• • • •

107 rows returned