PL/SQL Assignment Questions:

Question 1: Create a Procedure to Insert Employee Data

Write a PL/SQL procedure named insert_employee to insert employee data into the EMPLOYEES table:

- Table structure: EMPLOYEES (EMP_ID NUMBER, EMP_NAME VARCHAR2(100), DEPARTMENT VARCHAR2(50), SALARY NUMBER)

Question 2: Create a Procedure to Update Employee Salary

Write a PL/SQL procedure named update_salary to update an employee's salary based on their current salary:

- If the current salary is less than 5000, increase it by 10%.
- If the current salary is between 5000 and 10000, increase it by 7.5%.
- If the current salary is more than 10000, increase it by 5%.

Cursors

Question 3: Use a Cursor to Display Employee Names

Write a PL/SQL block using a cursor to fetch and display all employee names from the EMPLOYEES table.

Views

Question 4: Create a View for Employees with High Salary

Write a SQL statement to create a view named high_salary_employees that displays employees earning more than 10000.

Functions

Question 5: Create a Function to Calculate Bonus

Write a PL/SQL function named calculate_bonus to calculate the bonus based on an employee's salary:

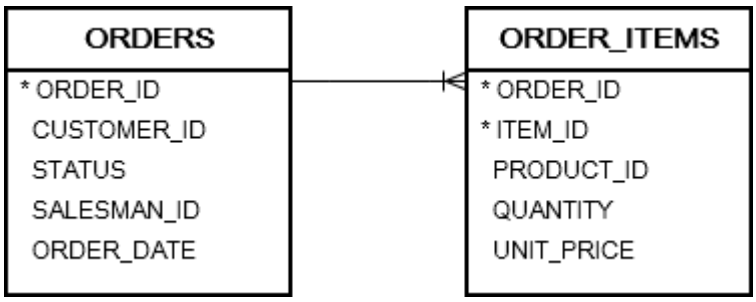
- Employees earning less than 5000 get a bonus of 10% of their salary.
- Employees earning between 5000 and 10000 get a bonus of 7.5% of their salary.
- Employees earning more than 10000 get a bonus of 5% of their salary.

Triggers

Question 6: Create a Trigger to Log Employee Insertions

Write a PL/SQL trigger named log_employee_insert to log whenever an employee is inserted into the EMPLOYEES table.

Question 7: Consider the orders and order_items tables from the sample database.



A) Create a view that returns the sales revenues by customers. The values of the credit column are 5% of the total sales revenues.

B) Write the PL/SQL query to develop an anonymous block which:

1. Reset the credit limits of all customers to zero.
2. Fetch customers sorted by sales in descending order and give them new credit limits from a budget of 1 million.

Question 8: Write a program in PL/SQL to show the uses of implicit cursor without using any attribute.

Table: employees

employee_id	integer
first_name	varchar(25)
last_name	varchar(25)
email	archar(25)
phone_number	varchar(15)
hire_date	date
job_id	varchar(25)
salary	integer
commission_pct	decimal(5,2)
manager_id	integer
department_id	integer

Question 9: Write a program in PL/SQL to create a cursor displays the name and salary of each employee in the EMPLOYEES table whose salary is less than that specified by a passed-in parameter value.

Table: employees

employee_id	integer
first_name	varchar(25)
last_name	varchar(25)
email	archar(25)

phone_number	varchar(15)
hire_date	date
job_id	varchar(25)
salary	integer
commission_pct	decimal(5,2)
manager_id	integer
department_id	integer

Question 10: Write a code in PL/SQL to create a trigger that checks for duplicate values in a specific column and raises an exception if found.

Question 11: Write a PL/SQL procedure for selecting some records from the database using some parameters as filters.

- Consider that we are fetching details of employees from ib_employee table where salary is a parameter for filter.

Question 12: Write PL/SQL code block to increment the employee's salary by 1000 whose employee_id is 102 from the given table below.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL_ID	PHONE_NUMBER	JOIN_DATE	JOB_ID	SALARY
100	ABC	DEF	abef	9876543210	2020-06-06	AD_PRES	24000.00
101	GHI	JKL	ghkl	9876543211	2021-02-08	AD_VP	17000.00
102	MNO	PQR	mnqr	9876543212	2016-05-14	AD_VP	17000.00
103	STU	VWX	stwx	9876543213	2019-06-24	IT_PROG	9000.00