

LAB1:

TASK_1:

The screenshot shows the SQL Server Enterprise Manager interface on the left, displaying the 'Databases' folder under 'DESKTOP-Q3NSEDU\SQLEXPRESS'. The 'NewDatabase' database is highlighted. The right pane shows the SQL Query window with the following script:

```
CREATE SCHEMA persons;
GO

CREATE TABLE sales.Orders (OrderNum INT NULL);

BACKUP DATABASE NewDatabase
TO DISK = 'C:\MyDisk\MyDatabase.bak';

USE master
GO

DROP DATABASE NewDatabase;

RESTORE DATABASE NewDatabase
FROM DISK = 'C:\MyDisk\MyDatabase.bak';

USE NewDatabase
GO
```

Below the script, the 'Messages' window displays the execution results:

```
Processed 320 pages for database 'NewDatabase', file 'NewDatabase' on file 1.
Processed 6 pages for database 'NewDatabase', file 'NewDatabase_log' on file 1.
BACKUP DATABASE successfully processed 326 pages in 0.021 seconds (121.279 MB/sec).
Processed 320 pages for database 'NewDatabase', file 'NewDatabase' on file 1.
Processed 6 pages for database 'NewDatabase', file 'NewDatabase_log' on file 1.
RESTORE DATABASE successfully processed 326 pages in 0.012 seconds (212.239 MB/sec).

Completion time: 2020-09-27T19:18:09.4123040+03:00
```

TASK_2:

The screenshot shows the SQL Query window with three queries and their results. Handwritten red numbers 1, 2, and 3 are placed next to the queries and their respective result sets.

Query 1:

```
select Employee.BusinessEntityID, Employee.JobTitle, Employee.BirthDate, Employee.HireDate from HumanResources.Employee where BirthDate >= '1981-01-01'
and HireDate > '2003-04-01';
```

Query 2:

```
select SUM(Employee.VacationHours) as 'SumVacationHours', SUM(Employee.SickLeaveHours) as 'SumSickLeaveHours' from HumanResources.Employee;
```

Query 3:

```
select TOP 3 Employee.BusinessEntityID, Employee.JobTitle, Employee.Gender, Employee.BirthDate, Employee.HireDate from HumanResources.Employee
order by HireDate;
```

Results:

Result 1:

BusinessEntityID	JobTitle	BirthDate	HireDate
13	Tool Designer	1983-06-29	2005-01-23
96	Production Technician - WC50	1984-02-26	2003-04-03
120	Production Technician - WC50	1981-07-07	2003-04-05
158	Production Technician - WC20	1981-01-08	2003-04-08
164	Production Technician - WC45	1982-10-26	2003-04-07
204	Production Technician - WC40	1982-06-11	2003-04-09
221	Control Specialist	1981-06-26	2003-04-07

Result 2:

SumVacationHours	SumSickLeaveHours
14678	13139

Result 3:

BusinessEntityID	JobTitle	Gender	BirthDate	HireDate
28	Production Technician - WC60	M	1976-05-15	2000-07-31
17	Marketing Assistant	M	1981-06-03	2001-02-26
3	Engineering Manager	M	1968-12-13	2001-12-12