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Information Technologies and Security Department

**Laboratory work №6**

**Discipline**: Database management systems

**Topic**: Creating Views

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1. **List of employees of retirement age dismissed this year**

CREATE VIEW vw\_Уволенные\_пенсионеры\_текущий\_год AS

SELECT r.ФИО, p.Номер\_приказа

FROM Приказы p

JOIN Работники r ON p.табельный\_номер = r.табельный\_номер

WHERE ((r.пол = 'М' AND dbo.fn\_ПолныхЛет(r.дата\_рождения) >= 63)

OR (r.пол = 'Ж' AND dbo.fn\_ПолныхЛет(r.дата\_рождения) >= 58))

AND YEAR(p.дата) = YEAR(GETDATE());

1. **List of accruals of benefits for dependents in the amount of 110 salaries for each dependent for employees of the “i” division**

CREATE VIEW vw\_Список\_начислений\_пособий\_на\_иждивенцев AS

SELECT r.табельный\_номер, r.ФИО, dbo.fn\_Рассчитать\_начисления\_на\_иждивенцев(r.табельный\_номер) AS Начисления\_на\_иждивенцев

FROM Работники r

WHERE r.код\_подразделения = 1;

1. **"I-st" order**

CREATE VIEW vw\_Приказ AS

SELECT p.номер\_приказа, r.ФИО, p.дата, tp.наименование AS Тип\_приказа, p.текст\_приказа

FROM Приказы p

JOIN Типы\_приказов tp ON p.код\_типа\_приказа = tp.код\_типа\_приказа

JOIN Работники r ON p.табельный\_номер = r.табельный\_номер

WHERE p.номер\_приказа = @i;

1. **List by nationality**

CREATE VIEW vw\_Список\_по\_национальности AS

SELECT r.ФИО, n.наименование

FROM Работники r

JOIN Национальности n ON n.код\_национальности = r.код\_национальности

WHERE n.наименование = 'Казах';

1. **List by gender**

CREATE VIEW vw\_Список\_по\_полу AS

SELECT табельный\_номер, ФИО, пол

FROM Работники

WHERE пол = 'М';

**Control questions**

1. **What is the purpose of the view mechanism?**

The purpose of the view mechanism in MS SQL Server is to provide a virtual table that encapsulates the result of a query. Views allow for easier query management, abstraction of database complexity, enhanced security by restricting access to specific data, and the ability to provide a stable interface for applications even when the underlying schema changes.

1. **What are the classifications of views?**

Views in MS SQL Server are classified into two main types: simple views and complex views. Simple views are based on a single table without including functions, aggregations, or subqueries. Complex views can involve multiple tables, joins, aggregate functions, subqueries, or other advanced SQL constructs.

1. **What are the methods of creating views?**

Views are created in MS SQL Server using the CREATE VIEW statement. This statement defines a SQL query that specifies the structure and data of the view. For example, a view can be created using SELECT statements with clauses such as JOIN, WHERE, GROUP BY, and others to customize the data representation.