UNIVERSIDAD NACIONAL DE INGENIERIA

FACULTAD DE CIENCIAS

PROGRAMACION EN DISPOSITIVOS MOVILES
CIENCIAS DE LA COMPUTACION

**PROYECTO
MMPP - Intranet**

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Contenido

QUERYS:

Obtiene Información del Alumno

SELECT A.*, F.nombreFacultad, INF.especialidad, INF.ciclo, INF.mail, INF.celular FROM Alumno A
INNER JOIN Facultad F ON A.IdFacultad = F.IdFacultad
INNER JOIN InfoAlumno INF ON A.codigoAlumno = INF.codigoAlumno AND A.IdFacultad = INF.IdFacultad

Obtiene Historial de Notas del Alumno

SELECT SAL.codigoAlumno, SAL.Curso_Ano, SAL.Periodo, SAL.IdCurso, SAL.nombreCurso, prom_final(SAL.Prom_PC, SAL.parcial, SAL.final) AS Prom_Curso FROM
(
SELECT A.IdFacultad, DC.Curso_Ano, DC.Periodo, C.nombreCurso, C.NCre, NC.*,
prom_practicas(NC.practica_1, NC.practica_2, NC.practica_3, NC.practica_4) AS Prom_PC FROM Alumno A
INNER JOIN NotasCurso NC ON A.codigoAlumno = NC.codigoAlumno
INNER JOIN Curso C ON NC.IdCurso = C.IdCurso AND A.IdFacultad = C.IdFacultad
INNER JOIN D_Curso DC ON A.codigoAlumno = DC.codigoAlumno AND C.IdCurso = DC.IdCurso
ORDER BY codigoAlumno, IdCurso, Curso_Ano, Periodo
) SAL

Obtiene Notas del Ciclo Actual del Alumno

SELECT SAL.*, prom_final(SAL.Prom_PC, SAL.parcial, SAL.final) AS Prom_Curso FROM
(
SELECT A.IdFacultad, DC.Curso_Ano, DC.Periodo, C.nombreCurso, C.NCre, NC.*,
prom_practicas(NC.practica_1, NC.practica_2, NC.practica_3, NC.practica_4) AS Prom_PC FROM Alumno A
INNER JOIN NotasCurso NC ON A.codigoAlumno = NC.codigoAlumno
INNER JOIN Curso C ON NC.IdCurso = C.IdCurso AND A.IdFacultad = C.IdFacultad
INNER JOIN D_Curso DC ON A.codigoAlumno = DC.codigoAlumno AND C.IdCurso = DC.IdCurso AND DC.Curso_ano = 2016 AND DC.Periodo = 1
ORDER BY codigoAlumno, IdCurso, Curso_Ano, Periodo
) SAL

Obtiene Promedio por cada Ciclo del Alumno

SELECT FINAL.codigoAlumno, FINAL.Curso_Ano, FINAL.Periodo, SUM(FINAL.NCre*FINAL.Prom_Curso)/SUM(FINAL.NCre) AS Prom_Ciclo FROM
(
** SELECT SAL.codigoAlumno, SAL.Curso_Ano, SAL.Periodo, SAL.IdCurso, SAL.nombreCurso, SAL.NCre, prom_final(SAL.Prom_PC, SAL.parcial, SAL.final) AS Prom_Curso FROM**
** (**
**   SELECT A.IdFacultad, DC.Curso_Ano, DC.Periodo, C.nombreCurso, C.NCre, NC.*,**
**   prom_practicas(NC.practica_1, NC.practica_2, NC.practica_3, NC.practica_4) AS Prom_PC FROM Alumno A**
**   INNER JOIN NotasCurso NC ON A.codigoAlumno = NC.codigoAlumno**
**   INNER JOIN Curso C ON NC.IdCurso = C.IdCurso AND A.IdFacultad = C.IdFacultad**
**   INNER JOIN D_Curso DC ON A.codigoAlumno = DC.codigoAlumno AND C.IdCurso = DC.IdCurso**
**   ORDER BY codigoAlumno, IdCurso, Curso_Ano, Periodo**
**) SAL**
) FINAL GROUP BY FINAL.codigoAlumno, FINAL.Curso_Ano, FINAL.Periodo

Créditos Desaprobados del Alumno

SELECT FINAL.codigoAlumno, SUM(NCre) AS Cre_Des FROM (
SELECT SAL.codigoAlumno, SAL.Curso_Ano, SAL.Periodo, SAL.IdCurso, SAL.nombreCurso, SAL.NCre, prom_final(SAL.Prom_PC, SAL.parcial, SAL.final) AS Prom_Curso FROM
(
SELECT A.IdFacultad, DC.Curso_Ano, DC.Periodo, C.nombreCurso, C.NCre, NC.*,
prom_practicas(NC.practica_1, NC.practica_2, NC.practica_3, NC.practica_4) AS Prom_PC FROM Alumno A
INNER JOIN NotasCurso NC ON A.codigoAlumno = NC.codigoAlumno
INNER JOIN Curso C ON NC.IdCurso = C.IdCurso AND A.IdFacultad = C.IdFacultad
INNER JOIN D_Curso DC ON A.codigoAlumno = DC.codigoAlumno AND C.IdCurso = DC.IdCurso
ORDER BY codigoAlumno, IdCurso, Curso_Ano, Periodo
) SAL GROUP BY codigoAlumno, SAL.nombreCurso HAVING Prom_Curso < 10.0

) FINAL GROUP BY FINAL.codigoAlumno

Créditos Aprobados del Alumno

**SELECT FINAL.codigoAlumno, SUM(NCre) AS Cre_Apr FROM (
SELECT SAL.codigoAlumno, SAL.Curso_Ano, SAL.Periodo,
SAL.IdCurso, SAL.nombreCurso, SAL.NCre,
prom_final(SAL.Prom_PC, SAL.parcial, SAL.final) AS
Prom_Curso FROM
(
SELECT A.IdFacultad, DC.Curso_Ano, DC.Periodo,
C.nombreCurso, C.NCre, NC.*,
prom_practicas(NC.practica_1, NC.practica_2, NC.practica_3,
NC.practica_4) AS Prom_PC FROM Alumno A
INNER JOIN NotasCurso NC ON A.codigoAlumno =
NC.codigoAlumno
INNER JOIN Curso C ON NC.IdCurso = C.IdCurso AND
A.IdFacultad = C.IdFacultad
INNER JOIN D_Curso DC ON A.codigoAlumno =
DC.codigoAlumno AND C.IdCurso = DC.IdCurso
ORDER BY codigoAlumno, IdCurso, Curso_Ano, Periodo
) SAL GROUP BY codigoAlumno, SAL.nombreCurso HAVING
Prom_Curso >= 10.0
) FINAL GROUP BY FINAL.codigoAlumno**

Créditos Totales Llevados por el Alumno

**SELECT FINAL.codigoAlumno, SUM(NCre) AS Cre_Tot FROM
(
SELECT SAL.codigoAlumno, SAL.Curso_Ano, SAL.Periodo,
SAL.IdCurso, SAL.nombreCurso, SAL.NCre,
prom_final(SAL.Prom_PC, SAL.parcial, SAL.final) AS
Prom_Curso FROM
(
SELECT A.IdFacultad, DC.Curso_Ano, DC.Periodo,
C.nombreCurso, C.NCre, NC.*,
prom_practicas(NC.practica_1, NC.practica_2, NC.practica_3,
NC.practica_4) AS Prom_PC FROM Alumno A
INNER JOIN NotasCurso NC ON A.codigoAlumno =
NC.codigoAlumno
INNER JOIN Curso C ON NC.IdCurso = C.IdCurso AND
A.IdFacultad = C.IdFacultad
INNER JOIN D_Curso DC ON A.codigoAlumno =
DC.codigoAlumno AND C.IdCurso = DC.IdCurso
ORDER BY codigoAlumno, IdCurso, Curso_Ano, Periodo
) SAL
) FINAL GROUP BY FINAL.codigoAlumno**

Función para obtener el promedio

```sql
CREATE FUNCTION prom_practicas(n1 int, n2 int, n3 int, n4 int) RETURNS DOUBLE(10,3) LANGUAGE sql
RETURN
  IF(n1<=n2 AND n1<=n3 AND n1<=n4,(n2 + n3 + n4)/3,
    IF(n2<=n1 AND n2<=n3 AND n2<=n4,(n1 + n3 + n4)/3,
      IF(n3<=n1 AND n3<=n2 AND n3<=n4,(n1 + n2 + n4)/3,
        IF(n4<=n1 AND n4<=n2 AND n4<=n3,(n1 + n2 + n3)/3,
        null)
      )
    )
  )
```

Función para obtener el promedio del ciclo

```sql
CREATE FUNCTION prom_final(n1 double, n2 int, n3 int)
RETURNS DOUBLE(10,3) LANGUAGE sql
RETURN (n1 + n2 + n3)/3;
```