Proiect baze de date

Gestiunea programarilor la un salon de cosmetica

## Cerintele aplicatiei

Se doreste realizarea unei aplicatii cu interfata vizuala care sa permita gestiunea programarilor la un salon de cosmetica. Pentru acest lucru, am realizat un site, folosind PHP si MySQL, destinat administratorului salonului.

## Structura bazei de date

Baza de date folosita are urmatoarele tabele, structura lor, relatiile si conditiile de integritate fiind detaliate in relatii.pdf.

1. Angajati
2. Clienti
3. Servicii
4. Programari
5. Cupoane
6. ClientiCuCupoane

## Utilizare

Procesul pentru adaugarea unei programari este urmatorul:

1. Adaugarea unui client (daca nu exista deja)
2. Adaugarea unui angajat (daca nu exista deja)
3. Adaugarea unui serviciu (daca nu exista deja)
4. Se introduc clientului si a serviciului dorit

Daca datele introduse au fost valide, se va adauga o noua programare unui angajat liber la acea ora.

## Administrare – insert, update, delete

Aplicatia are o serie de optiuni pentru a insera, modifica si sterge intrari din baza de date.

Adaugare client nou

INSERT INTO clienti (nume, prenume, nrtelefon)

VALUES ('$nume', '$prenume', '$nrtelefon')

Adaugare programare

INSERT INTO programari(IDClient, IDAngajat, IDServiciu, Data, Ora)

VALUES('$IDClient', '$IDAngajat', '$IDServiciu', '$data', '$ora')

Unde $IDAngajat primul ID gasit pentru un angajat care nu lucreaza la ora selectata

Adaugare angajat nou

INSERT INTO angajati (nume, prenume, salariu, numaroresapt, dataangajarii)

VALUES ('$nume', '$prenume', '$wage', '$hours', now())

Adaugare cupon de reducere nou

INSERT INTO cupoane (Cod, Reducere, Valabil)

VALUES ('$Cod', '$Reducere', 1)

Adaugare serviciu nou

INSERT INTO servicii(denumire, pret)

VALUES ('$denumire', '$pret')

Utilizare cupon de reducere

INSERT INTO clienticucupoane (IDClient, IDCupon, Data)

VALUES ( (SELECT IDClient FROM clienti WHERE nume='$Nume' and prenume='$Prenume'), (Select IDCupon FROM cupoane WHERE Cod='$Cod'), now())

Modificare angajat

UPDATE angajati SET salariu='$wage', numaroresapt='$hours'

WHERE nume='$nume' AND prenume='$prenume'

Modificare validitate cupon

UPDATE cupoane SET Valabil='$Valabilitate'

WHERE IDCupon='$IDCupon'

Modificare serviciu

UPDATE servicii SET pret='$pret'

WHERE denumire='$denumire'

Stergere programare

DELETE FROM programari

WHERE IDClient IN (SELECT IDClient FROM clienti WHERE nume='$nume' and prenume='$prenume') and ora='$ora' and data='$data'

Stergere angajat

DELETE FROM angajati

WHERE nume='$nume' AND prenume='$prenume'

# Interogari simple

Vizualizare angajati

SELECT \*

FROM angajati

Vizualizare clienti

SELECT \*

FROM clienti

Vizualizare servicii

SELECT \*

FROM servicii

Vizualizare cupoane

SELECT c.IDCupon, c.Reducere, c.Cod, cl.Nume, cl.Prenume

FROM cupoane as c

JOIN clienticucupoane as cc ON c.IDCupon=cc.IDCupon

LEFT JOIN clienti as cl ON cc.IDClient=cl.IDClient

Vizualizare angajati liberi in ziua curenta

SELECT Nume, Prenume

FROM Angajati

WHERE IDAngajat NOT IN

(SELECT IDAngajat FROM programari WHERE data=now())

Vizualizare incasari totale

SELECT COALESCE(SUM(Pret),0)

FROM

(SELECT Pret

FROM programari

JOIN Servicii on programari.IDServiciu=servicii.IDServiciu ) as A

Vizualizare top angajati dupa numarul de progamari

SELECT a.Nume, a.Prenume, q.nr

FROM angajati AS a

JOIN

(SELECT IDAngajat, count(\*) as nr

FROM programari

GROUP BY IDAngajat ORDER BY nr DESC) as q

ON a.IDAngajat=q.IDAngajat

Vizualizare top cupoane dupa numarul de utilizari

SELECT c.Cod, q.nr

FROM cupoane AS c

JOIN

(SELECT IDCupon, count(\*) as nr

FROM clienticucupoane

GROUP BY IDCupon ORDER BY nr DESC) as q

ON c.IDCupon=q.IDCupon

Vizualizare top servicii

SELECT s.Denumire, q.nr

FROM servicii as s

JOIN

(SELECT IDServiciu, count(\*) as nr

FROM programari

GROUP BY IDServiciu

ORDER BY nr DESC) as q

ON s.IDServiciu=q.IDServiciu

# Interogari complexe

Vizualizare clienti fideli (>nr programari, nr citit)

SELECT Clienti.Nume, Clienti.Prenume

FROM Clienti JOIN

(SELECT IDClient, COUNT(\*) as NrProg

FROM programari

GROUP BY IDClient HAVING NrProg>'$nr') as A

ON Clienti.IDClient=A.IDClient

Vizualizare programari urmatoare

SELECT clienti.nume as NumeClient, clienti.Prenume as PrenumeClient, data, ora, NumeAng, PrenumeAng

FROM

(SELECT IDClient, data, ora, angajati.nume as NumeAng, angajati.Prenume as PrenumeAng

FROM ANGAJATI join programari on angajati.IDAngajat=programari.IDAngajat) as A

JOIN clienti on clienti.IDClient=A.IDClient WHERE data>=now()

Vizualizare programarile din ziua curenta

SELECT clienti.nume as NumeClient, clienti.Prenume as PrenumeClient, data, ora, NumeAng, PrenumeAng

FROM

(SELECT IDClient, data, ora, angajati.nume as NumeAng, angajati.Prenume as PrenumeAng

FROM ANGAJATI

JOIN programari on angajati.IDAngajat=programari.IDAngajat) as A

JOIN clienti on clienti.IDClient=A.IDClient WHERE data=now()

Vizualizare profit in luna curenta

SELECT (SELECT COALESCE(SUM(Pret),0) as incasari

FROM

(SELECT Pret

FROM programari

JOIN Servicii ON programari.IDServiciu=servicii.IDServiciu

WHERE MONTH(data)=MONTH(now()) )as A) –

(SELECT COALESCE(SUM(SALARIU))

FROM angajati) –

(SELECT COALESCE(SUM(reducere),0)

FROM cupoane

JOIN clienticucupoane ON cupoane.IDCupon=clienticucupoane.IDCupon

WHERE MONTH(data)=MONTH(now()))